

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED  
OMB No. 1004-0136  
Expires January 31, 2004

5. Lease Serial No.

UTU-34346

6. If Indian, Allottee or Tribe Name

N/A

7. If Unit or CA Agreement, Name and No.

Hawkeye

8. Lease Name and Well No.

Hawkeye Federal V-23-8-16

9. API Well No.

43013-33260

10. Field and Pool, or Exploratory

Monument Butte

11. Sec., T., R., M., or Blk. and Survey or Area

Sec. 23, T8S R16E

12. County or Parish

Duchesne

13. State

UT

1a. Type of Work: ☒ DRILL

☐ REENTER

1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other

☒ Single Zone ☐ Multiple Zone

2. Name of Operator

Newfield Production Company

3a. Address

Route #3 Box 3630, Myton UT 84052

3b. Phone No. (include area code)

(435) 646-3721

4. Location of Well (Report location clearly and in accordance with any State requirements.)\*

At surface SE/SE 645' FSL 676' FEL 578521X 4438821Y 40.037916  
At proposed prod. zone 0' FSL 1323' FEL 5783227X 4438622Y 40.096181 110.081130

14. Distance in miles and direction from nearest town or post office\*

Approximately 11.4 miles southwest of Myton, Utah

15. Distance from proposed\* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 0' f/lse, 1323' f/unit

16. No. of Acres in lease

480.00

17. Spacing Unit dedicated to this well

20 Acres

18. Distance from proposed location\* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 1323'

19. Proposed Depth

6702'

20. BLM/BIA Bond No. on file

UTB000192

21. Elevations (Show whether DF, KDB, RT, GL, etc.)

5470' GL

22. Approximate date work will start\*

4th Quarter 2006

23. Estimated duration

Approximately seven (7) days from spud to rig release.

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

1. Well plat certified by a registered surveyor.

2. A Drilling Plan.

3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).

4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).

5. Operator certification.

6. Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature

*Mandi Crozier*

Name (Printed/Typed)

Mandi Crozier

Date

7/25/06

Title

Regulatory Specialist

Approved by (Signature)

*Bradley G. Hill*

Name (Printed/Typed)

BRADLEY G. HILL

Date

08-17-06

Title

Off ENVIRONMENTAL MANAGER

Application approval does not warrant or certify the the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*(Instructions on reverse)

Federal Approval of this  
Action is Necessary

RECEIVED

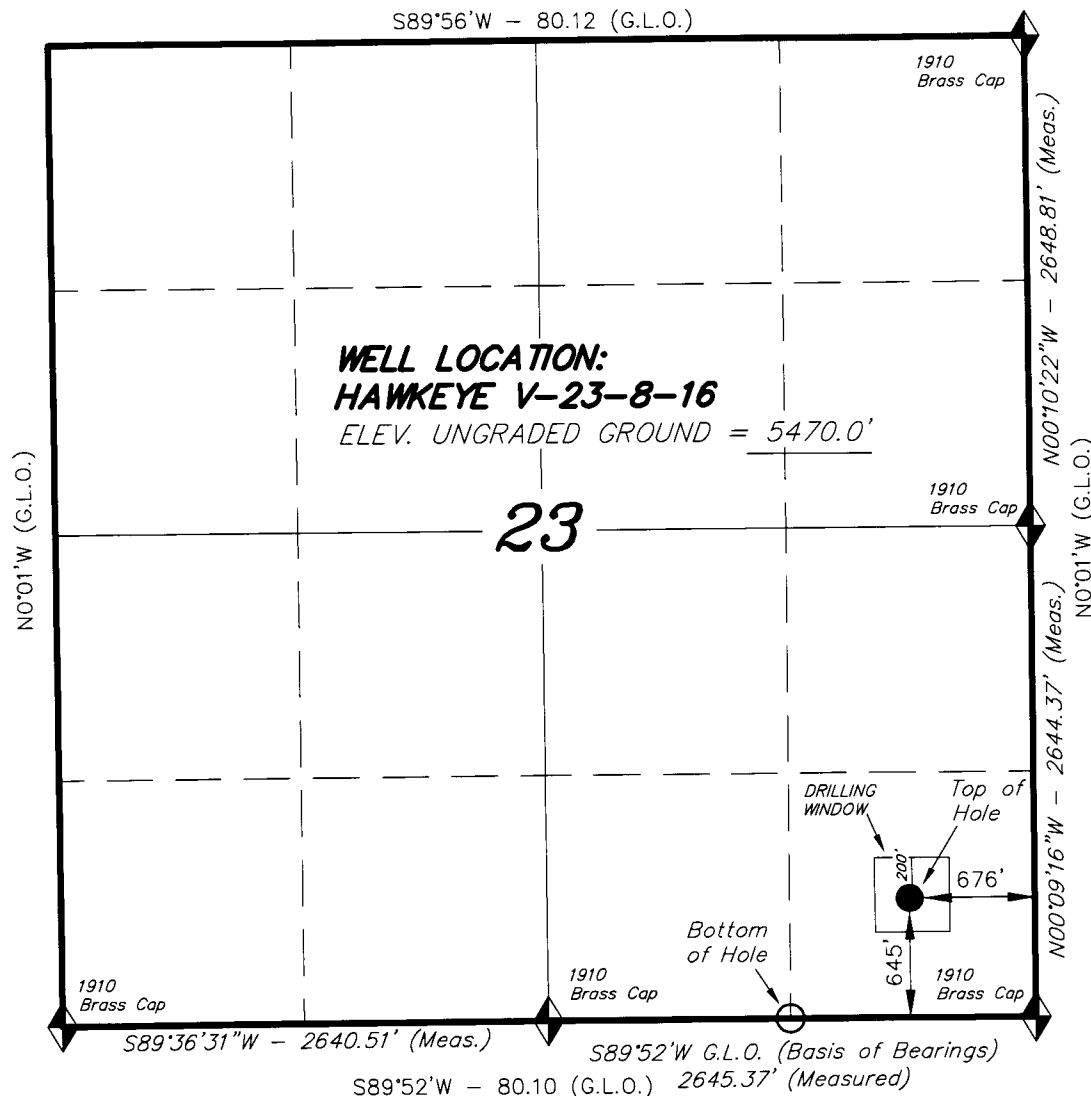
JUL 31 2006

DIV. OF OIL, GAS & MINING

**T8S, R16E, S.L.B.&M.**

**NEWFIELD PRODUCTION COMPANY**

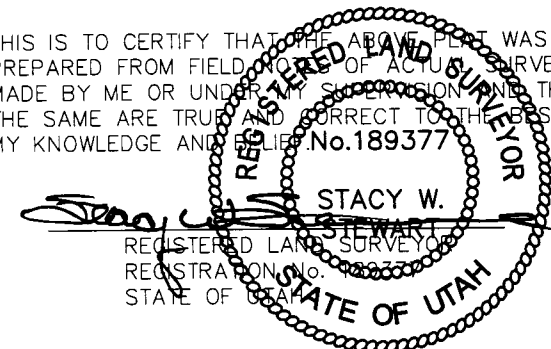
WELL LOCATION, HAWKEYE V-23-8-16,  
LOCATED AS SHOWN IN THE SE 1/4 SE  
1/4 OF SECTION 23, T8S, R16E,  
S.L.B.&M. DUCHESNE COUNTY, UTAH.



**Note:**

1. The bottom of hole bears S44°56'05\"W 912.70' from the well head.
2. The Bottom hole footages are 0' FSL & 1323' FEL.

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS  
PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS  
MADE BY ME OR UNDER MY SUPERVISION AND THAT  
THE SAME ARE TRUE AND CORRECT TO THE BEST OF  
MY KNOWLEDGE AND BELIEF. No. 189377



**TRI STATE LAND SURVEYING & CONSULTING**  
180 NORTH VERNAL AVE. - VERNAL, UTAH 84078  
(435) 781-2501

DATE SURVEYED: 5-20-06	SURVEYED BY: D.P.
DATE DRAWN: 5-23-06	DRAWN BY: F.T.M.
REVISED:	SCALE: 1" = 1000'

◆ = SECTION CORNERS LOCATED

BASIS OF ELEV;  
U.S.G.S. 7-1/2 min QUAD (MYTON SE)

**HAWKEYE V-23-8-16**  
(Surface Location) NAD 83  
LATITUDE = 40° 05' 52.54"  
LONGITUDE = 110° 04' 46.68"

# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office  
P.O. Box 45155  
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:  
3160  
(UT-922)

August 15, 2006

### Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2006 Plan of Development Hawkeye Unit, Duchesne County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2006 within the Hawkeye Unit, Duchesne County, Utah.

API #	WELL NAME	LOCATION
(Proposed PZ Green River)		
43-013-33260	Hawkeye Fed V-23-8-16	Sec 23 T08S R16E 0645 FSL 0676 FEL BHL Sec 23 T08S R16E 0000 FSL 1323 FEL
43-013-33261	Hawkeye Fed S-23-8-16	Sec 23 T08S R16E 1852 FSL 1836 FEL BHL Sec 23 T08S R16E 1321 FSL 1326 FEL
43-013-33263	Hawkeye Fed L-26-8-16	Sec 26 T08S R16E 1968 FSL 2013 FEL BHL Sec 26 T08S R16E 2638 FSL 1323 FEL
43-013-33264	Hawkeye Fed I-26-8-16	Sec 26 T08S R16E 1911 FNL 0668 FEL BHL Sec 26 T08S R16E 1324 FNL 1323 FEL
43-013-33275	Hawkeye Fed H-26-8-16	Sec 26 T08S R16E 0644 FNL 1995 FEL BHL Sec 26 T08S R16E 1325 FNL 2646 FEL

These wells are part of a 20 acre infill program in the Greater Monument Butte Field. Telephone conversation with Kelly Donohoue, Newfield, indicated that they will apply for exceptions to the locating and siting requirements of the State of Utah (R649-3-2) on a well by well basis. Newfield is currently scheduled to seek relief on a unit basis at the September meeting of the Board of Oil Gas and Mining.

This office has no objection to permitting the wells at this time.

/s/ Michael L. Coulthard

# NEWFIELD



ROCKY MOUNTAINS

August 8, 2006

Ms. Diana Whitney  
State of Utah, Div. of Oil, Gas and Mining  
P.O. Box 145801  
Salt Lake City, Utah 84114-5801

Re: Directional Drilling R649-3-11  
Hawkeye Unit UTU-76331X  
Various Wells & Locations (See Attached)  
Duchesne County, Utah

Dear Ms. Whitney:

Pursuant to the filing of Newfield Production Company's (hereinafter "NPC") Applications for Permits to Drill dated 07/25/06 (copies enclosed herewith) which concern the wells described on the attached Exhibit, NPC is hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling.

All of these drillsite locations are located within the boundaries of the Hawkeye Unit UTU-76331X. NPC is permitting these wells as directional wells in order to minimize surface disturbance. By locating the wells at the surface locations described and directionally drilling from these locations, NPC will be able to utilize the existing the existing roads and pipelines in the area.

Furthermore, NPC hereby certifies that NPC is the Hawkeye Unit Operator and all lands within 460 feet of each of the entire directional well bores are within the Hawkeye Unit.

Therefore, based on the above stated information NPC requests that the permits be granted pursuant to R649-3-11. Thank you for your consideration in this matter.

Sincerely,

**Newfield Production Company**

Rhonda Deimer  
Land Associate

Enclosures

**RECEIVED**

**AUG 11 2006**

**DIV. OF OIL, GAS & MINING**

**DIRECTIONAL DRILLING R649-3-11 WELL EXHIBIT  
HAWKEYE UNIT UTU-76331X  
DUCHESNE COUNTY, UTAH**

Hawkeye Federal S-23-8-16

BLM Lease #s U-34346 (surface & bottomhole)  
1852' FSL, 1836' FEL (at surface)  
1321' FSL, 1326' FEL (bottomhole)  
Section 23-T8S-R16E

Hawkeye Federal V-23-8-16

BLM Lease #s U-34346 (surface & bottomhole)  
645' FSL, 676' FEL (at surface)  
0' FSL, 1323' FEL (bottomhole)  
Section 23-T8S-R16E

Hawkeye Federal F-25-8-16

BLM Lease #s U-34346 (surface & bottomhole)  
646' FNL, 646' FWL (at surface)  
1323' FNL, 0' FWL (bottomhole)  
Section 25-T8S-R16E

Hawkeye Federal I-26-8-16

BLM Lease #s U-73088 (surface & bottomhole)  
1911' FNL, 668' FEL (at surface)  
1324' FNL, 1323' FEL (bottomhole)  
Section 26-T8S-R16E

Hawkeye Federal L-26-8-16

BLM Lease #s U-34346 (surface & bottomhole)  
1968' FSL, 2013' FEL (at surface)  
2638' FSL, 1323' FEL (bottomhole)  
Section 26-T8S-R16E

**NEWFIELD PRODUCTION COMPANY  
HAWKEYE FEDERAL #V-23-8-16  
AT SURFACE: SE/SE SECTION 23, T8S, R16E  
DUCHESNE COUNTY, UTAH**

**ONSHORE ORDER NO. 1**

**DRILLING PROGRAM**

**1. GEOLOGIC SURFACE FORMATION:**

Uinta formation of Upper Eocene Age

**2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:**

Uinta	0' – 3322'
Green River	3322'
Wasatch	6702'

**3. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS:**

Green River Formation 3322' – 6702' - Oil

**4. PROPOSED CASING PROGRAM**

Please refer to the Monument Butte Field Standard Operation Procedure (SOP).

**5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:**

Please refer to the Monument Butte Field SOP. See Exhibit "C".

**6. TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:**

Please refer to the Monument Butte Field SOP.

**7. AUXILIARY SAFETY EQUIPMENT TO BE USED:**

Please refer to the Monument Butte Field SOP.

**8. TESTING, LOGGING AND CORING PROGRAMS:**

Please refer to the Monument Butte Field SOP.

**9. ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:**

The anticipated maximum bottom hole pressure is 1800 psi. It is not anticipated that abnormal temperatures will be encountered.

**10. ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:**

Please refer to the Monument Butte Field SOP.

**NEWFIELD PRODUCTION COMPANY  
HAWKEYE FEDERAL #V-23-8-16  
AT SURFACE: SE/SE SECTION 23, T8S, R16E  
DUCHESNE COUNTY, UTAH**

**ONSHORE ORDER NO. 1**

**MULTI-POINT SURFACE USE & OPERATIONS PLAN**

**1. EXISTING ROADS**

See attached Topographic Map "A"

To reach Newfield Production Company well location site Hawkeye Federal #V-23-8-16 located in the SE 1/4 SE 1/4 Section 23, T8S, R16E, Duchesne County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.6 miles  $\pm$  to the junction of this highway and UT State Hwy 53; proceed southeasterly along Hwy 53 - 8.5 miles  $\pm$  to it's junction with an existing dirt road to the southwest; proceed southwesterly - 1.3 miles  $\pm$  to it's junction with the beginning of the access road to the existing Mon. Butte Fed. NE 16-23-8-16 well location.

**2. PLANNED ACCESS ROAD**

There is no proposed access road for this location. The proposed well will be drilled directionally off of the existing Mon. Butte Fed. NE 16-23-8-16 well pad. See attached **Topographic Map "B"**.

**3. LOCATION OF EXISTING WELLS**

Refer to Exhibit "B".

**4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES**

The proposed well will be drilled directionally off of the Mon. Butte Fed. NE 16-23-8-16 well pad. There will be a pumping unit and a short flow line added to the tank battery for the proposed Hawkeye Federal V-23-8-16.

Please refer to the Monument Butte Field Standard Operating Procedure (SOP).

**5. LOCATION AND TYPE OF WATER SUPPLY**

Please refer to the Monument Butte Field SOP. See Exhibit "A".

**6. SOURCE OF CONSTRUCTION MATERIALS**

The proposed Hawkeye Federal V-23-8-16 will be drilled off of the existing Mon. Butte Fed. NE 16-23-8-16 well pad. No additional surface disturbance will be required for this location.

**7. METHODS FOR HANDLING WASTE DISPOSAL**

Please refer to the Monument Butte Field SOP.

**8. ANCILLARY FACILITIES**

Please refer to the Monument Butte Field SOP.

9. **WELL SITE LAYOUT**

See attached Location Layout Diagram.

10. **PLANS FOR RESTORATION OF SURFACE**

Please refer to the Monument Butte Field SOP.

11. **SURFACE OWNERSHIP** - Bureau Of Land Management (Proposed location and access roads leading to).

12. **OTHER ADDITIONAL INFORMATION**

Newfield Production Company requests a 520' ROW in Lease UTU-67170 and 520' of disturbed area be granted in Lease UTU-34346 to allow for construction of the proposed water lines. It is proposed that the ROW and disturbed area will be 50' wide to allow for construction of a buried 3" steel water injection line and a buried 3" poly water return line. **Refer to Topographic Map "C."** For a ROW plan of development, please refer to the Monument Butte Field SOP.

**Water Disposal**

Immediately upon first production, all produced water will be confined to a steel storage tank. If the production water meets quality guidelines, it is transported to the Ashley, Monument Butte, Jonah, and Beluga water injection facilities by company or contract trucks. Subsequently, the produced water is injected into approved Class II wells to enhance Newfield's secondary recovery project.

Water not meeting quality criteria, is disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E) or at State of Utah approved surface disposal facilities.

**Threatened, Endangered, And Other Sensitive Species**

**Mountain Plover:** If new construction or surface disturbing activities are scheduled to occur between May 1 and June 15, detailed surveys of the area within 0.5 mile of the proposed location and within 300 feet of proposed access routes must be conducted to detect the presence of mountain plovers. All surveys must be conducted in accordance with the survey protocols outlined in the most recent USFWS Survey Protocol. Surveys must be completed prior to initiating new construction or surface disturbing activities. No new construction or surface disturbing activities will be allowed between March 15 and August 15 within a 0.5 mile radius of any documented mountain plover nest site.

**Reserve Pit Liner**

A 12 mil liner with felt is required. Please refer to the Monument Butte Field SOP.

**Location and Reserve Pit Reclamation**

Please refer to the Monument Butte Field SOP.

The following seed mixture will be used on the topsoil stockpile, to the recontoured surface of the reserve pit, and for final reclamation: (All poundages are in pure live seed)

Western Wheatgrass	<i>Pascopyrum Smithii</i>	6 lbs/acre
Galletta Grass	<i>Hilaria Jamesii</i>	6 lbs/acre



**Details of the On-Site Inspection**

The proposed Hawkeye Federal #V-23-8-16 was on-sited on 5/25/06. The following were present; Shon Mckinnon (Newfeild Production), Chris Carusona (Bureau of Land Management), and Nate West (Bureau of Landmanagement). Weather conditions were clear and ground cover was 100% open.

**13. LESSEE'S OR OPERATORS REPRESENTATIVE AND CERTIFICATION****Representative**

Name: Shon Mckinnon  
Address: Route #3 Box 3630  
Myton, UT 84052  
Telephone: (435) 646-3721

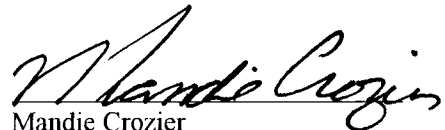
**Certification**

Please be advised that NEWFIELD PRODUCTION COMPANY is considered to be the operator of well #V-23-8-16 SE/SE Section 23, Township 8S, Range 16E: Lease UTU-34346 Duchesne County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by US Specialty Insurance #B001832.

I hereby certify that the proposed drillsite and access route have been inspected, and I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Newfield Production Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

7/27/06

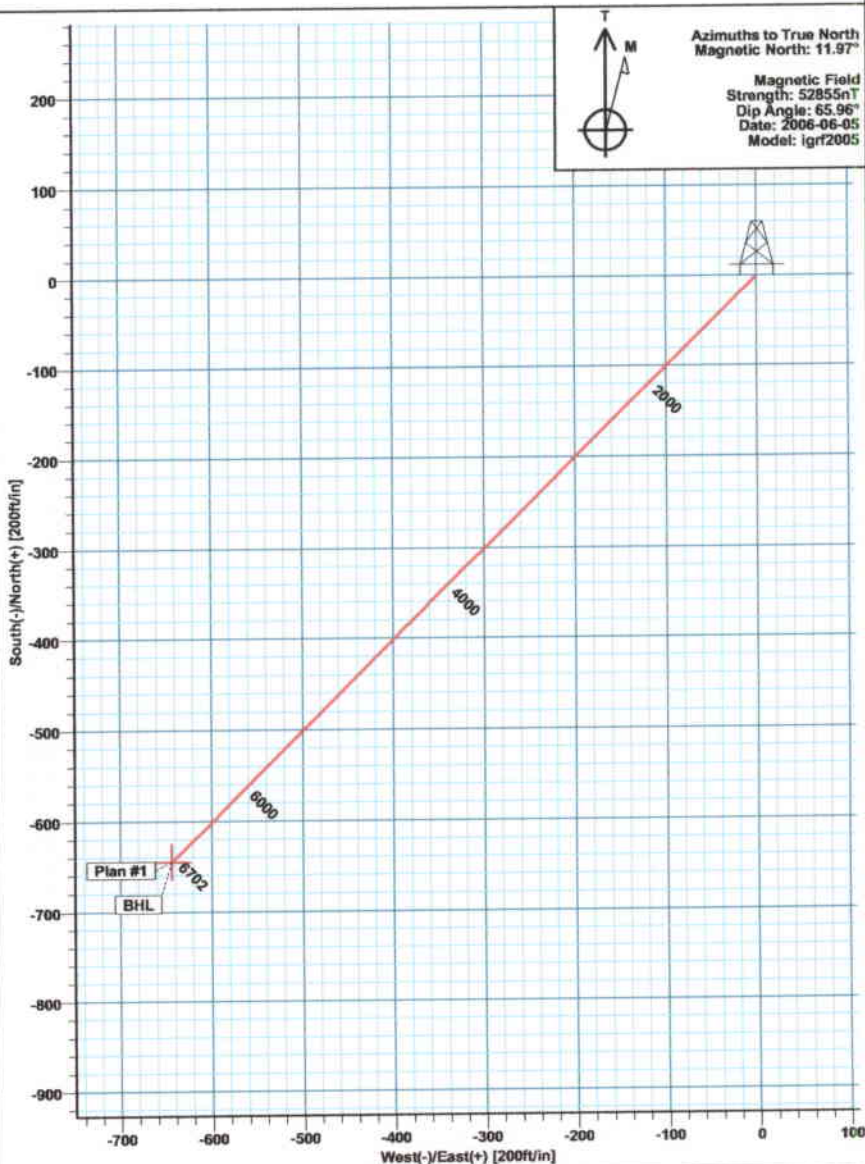
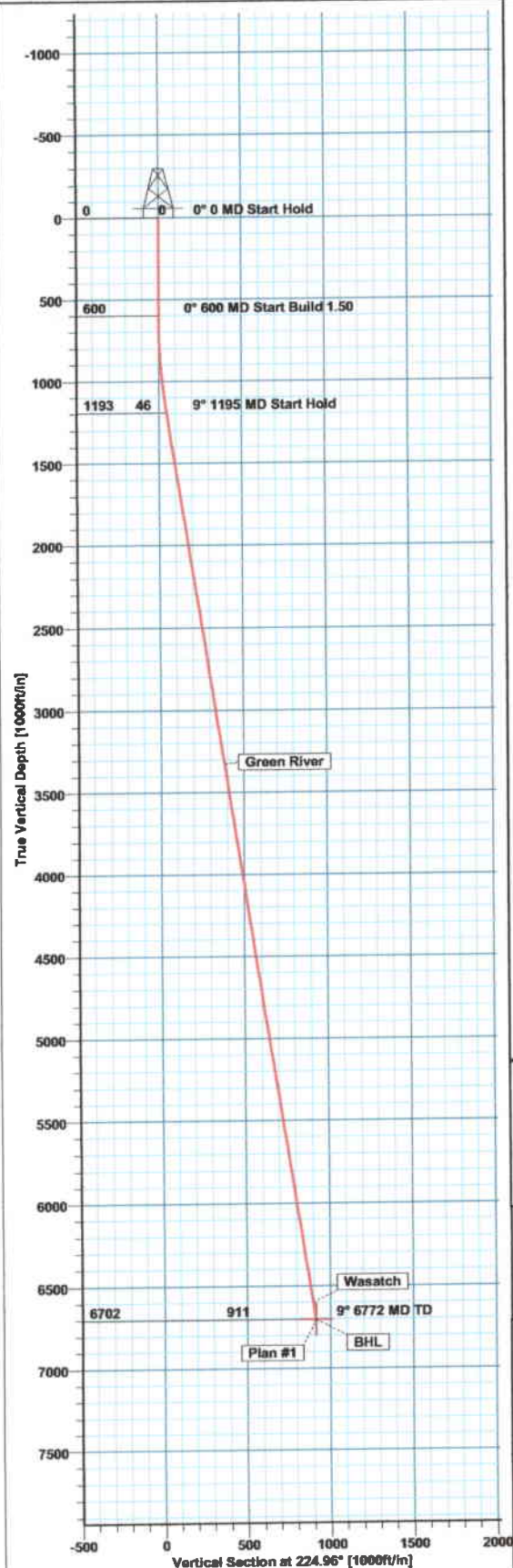
Date



Mandie Crozier

Regulatory Specialist

Newfield Production Company



Azimuths to True North  
Magnetic North: 11.97°

Magnetic Field  
Strength: 52855nT  
Dip Angle: 65.96°  
Date: 2006-06-05  
Model: igr2005

#### SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	DLeg	TFace	VSec	Target
1	0.00	0.00	224.96	0.00	0.00	0.00	0.00	0.00	0.00	
2	600.00	0.00	224.96	600.00	0.00	0.00	0.00	0.00	0.00	
3	1195.00	8.93	224.96	1192.00	-32.73	-32.68	1.50	224.96	46.25	
4	6771.93	8.93	224.96	6702.00	-845.00	-844.00	0.00	0.00	911.46	BHL

#### WELL DETAILS

Name	+N-S	+E-W	Northing	Easting	Latitude	Longitude	Slot
H V-32-8-16	0.00	0.00	7207563.48	2037733.18	40°05'52.540N	110°04'46.680W	N/A

#### SITE DETAILS

Hawkeye V-23-8-16  
Sec. 23 T8S R16E

Site Centre Latitude: 40°05'52.540N  
Longitude: 110°04'46.680W

Ground Level: 5470.00  
Positional Uncertainty: 0.00  
Convergence: 0.91

#### Plan: Plan #1 (H V-32-8-16/OH)

Created By: Julie Seaman Date: 2006-06-05

#### FIELD DETAILS

Duchesne County, UT

Geodetic System: US State Plane Coordinate System 1983  
Ellipsoid: GRS 1980  
Zone: Utah Central Zone  
Magnetic Model: igr2005

System Datum: Mean Sea Level  
Local North: True North

# Scientific Drilling International

## Planning Report

Page: 1

Company: Newfield Exploration Co.  
Field: Duchesne County, UT  
Site: Hawkeye V-23-8-16  
Well: H V-32-8-16  
Wellpath: OH

Date: 2006-06-05 Time: 16:36:58  
Co-ordinate(NE) Reference: Well: H V-32-8-16, True North  
Vertical (TVD) Reference: GL 5470' & RKB 12' 5482.0  
Section (VS) Reference: Well (0.00N,0.00E,224.96Azi)  
Plan: Plan #1

Field: Duchesne County, UT

Map System: US State Plane Coordinate System 1983  
Geo Datum: GRS 1980  
Sys Datum: Mean Sea Level

Map Zone: Utah, Central Zone  
Coordinate System: Well Centre  
Geomagnetic Model: igrf2005

Site: Hawkeye V-23-8-16  
Sec. 23 T8S R16E

Site Position: Northing: 7207563.48 ft Latitude: 40 5 52.540 N  
From: Geographic Easting: 2037733.18 ft Longitude: 110 4 46.680 W  
Position Uncertainty: 0.00 ft North Reference: True  
Ground Level: 5470.00 ft Grid Convergence: 0.91 deg

Well: H V-32-8-16

Slot Name:

SHL: 645' FSL, 676' FEL  
Well Position: +N/-S 0.00 ft Northing: 7207563.48 ft Latitude: 40 5 52.540 N  
+E/-W 0.00 ft Easting: 2037733.18 ft Longitude: 110 4 46.680 W  
Position Uncertainty: 0.00 ft

Wellpath: OH

Drilled From: Surface  
Tie-on Depth: 0.00 ft  
Above System Datum: Mean Sea Level  
Declination: 11.97 deg  
Mag Dip Angle: 65.96 deg  
+E/-W Direction  
ft deg

Current Datum: GL 5470' & RKB 12' Height 5482.00 ft  
Magnetic Data: 2006-06-05  
Field Strength: 52855 nT  
Vertical Section: Depth From (TVD)  
ft

6702.00 0.00 0.00 224.96

Plan: Plan #1

Date Composed: 2006-06-05  
Version: 1  
Tied-to: From Surface

Principal: Yes

### Plan Section Information

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
0.00	0.00	224.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
600.00	0.00	224.96	600.00	0.00	0.00	0.00	0.00	0.00	0.00	
1195.00	8.93	224.96	1192.60	-32.73	-32.68	1.50	1.50	0.00	224.96	
6771.93	8.93	224.96	6702.00	-645.00	-644.00	0.00	0.00	0.00	0.00	BHL

### Section 1 : Start Hold

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
0.00	0.00	224.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	224.96	100.00	0.00	0.00	0.00	0.00	0.00	0.00	224.96
200.00	0.00	224.96	200.00	0.00	0.00	0.00	0.00	0.00	0.00	224.96
300.00	0.00	224.96	300.00	0.00	0.00	0.00	0.00	0.00	0.00	224.96
400.00	0.00	224.96	400.00	0.00	0.00	0.00	0.00	0.00	0.00	224.96
500.00	0.00	224.96	500.00	0.00	0.00	0.00	0.00	0.00	0.00	224.96
600.00	0.00	224.96	600.00	0.00	0.00	0.00	0.00	0.00	0.00	224.96

### Section 2 : Start Build 1.50

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
700.00	1.50	224.96	699.99	-0.93	-0.92	1.31	1.50	1.50	0.00	0.00
800.00	3.00	224.96	799.91	-3.70	-3.70	5.23	1.50	1.50	0.00	0.00
900.00	4.50	224.96	899.69	-8.33	-8.32	11.77	1.50	1.50	0.00	0.00
1000.00	6.00	224.96	999.27	-14.81	-14.78	20.92	1.50	1.50	0.00	0.00
1100.00	7.50	224.96	1098.57	-23.12	-23.09	32.68	1.50	1.50	0.00	0.00
1195.00	8.93	224.96	1192.60	-32.73	-32.68	46.25	1.50	1.50	0.00	0.00



# Scientific Drilling International

## Planning Report

Company: Newfield Exploration Co.  
Field: Duchesne County, UT  
Site: Hawkeye V-23-8-16  
Well: H V-32-8-16  
Wellpath: OH

Date: 2006-06-05 Time: 16:36:58  
Co-ordinate(NE) Reference: Well: H V-32-8-16, True North  
Vertical (TVD) Reference: GL 5470' & RKB 12' 5482.0  
Section (VS) Reference: Well (0.00N,0.00E,224.96Azi)  
Plan: Plan #1

Page: 2

### Section 3 : Start Hold

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
1200.00	8.93	224.96	1197.54	-33.28	-33.23	47.02	0.00	0.00	0.00	180.00
1300.00	8.93	224.96	1296.33	-44.26	-44.19	62.54	0.00	0.00	0.00	180.00
1400.00	8.93	224.96	1395.11	-55.23	-55.15	78.05	0.00	0.00	0.00	180.00
1500.00	8.93	224.96	1493.90	-66.21	-66.11	93.57	0.00	0.00	0.00	180.00
1600.00	8.93	224.96	1592.69	-77.19	-77.07	109.08	0.00	0.00	0.00	180.00
1700.00	8.93	224.96	1691.48	-88.17	-88.03	124.59	0.00	0.00	0.00	180.00
1800.00	8.93	224.96	1790.27	-99.15	-98.99	140.11	0.00	0.00	0.00	180.00
1900.00	8.93	224.96	1889.06	-110.13	-109.96	155.62	0.00	0.00	0.00	180.00
2000.00	8.93	224.96	1987.85	-121.11	-120.92	171.14	0.00	0.00	0.00	180.00
2100.00	8.93	224.96	2086.64	-132.08	-131.88	186.65	0.00	0.00	0.00	180.00
2200.00	8.93	224.96	2185.43	-143.06	-142.84	202.17	0.00	0.00	0.00	180.00
2300.00	8.93	224.96	2284.22	-154.04	-153.80	217.68	0.00	0.00	0.00	180.00
2400.00	8.93	224.96	2383.01	-165.02	-164.76	233.19	0.00	0.00	0.00	180.00
2500.00	8.93	224.96	2481.80	-176.00	-175.73	248.71	0.00	0.00	0.00	180.00
2600.00	8.93	224.96	2580.59	-186.98	-186.69	264.22	0.00	0.00	0.00	180.00
2700.00	8.93	224.96	2679.37	-197.96	-197.65	279.74	0.00	0.00	0.00	180.00
2800.00	8.93	224.96	2778.16	-208.94	-208.61	295.25	0.00	0.00	0.00	180.00
2900.00	8.93	224.96	2876.95	-219.91	-219.57	310.76	0.00	0.00	0.00	180.00
3000.00	8.93	224.96	2975.74	-230.89	-230.53	326.28	0.00	0.00	0.00	180.00
3100.00	8.93	224.96	3074.53	-241.87	-241.50	341.79	0.00	0.00	0.00	180.00
3200.00	8.93	224.96	3173.32	-252.85	-252.46	357.31	0.00	0.00	0.00	180.00
3300.00	8.93	224.96	3272.11	-263.83	-263.42	372.82	0.00	0.00	0.00	180.00
3350.50	8.93	224.96	3322.00	-269.37	-268.96	380.66	0.00	0.00	0.00	180.00
3400.00	8.93	224.96	3370.90	-274.81	-274.38	388.34	0.00	0.00	0.00	180.00
3500.00	8.93	224.96	3469.69	-285.79	-285.34	403.85	0.00	0.00	0.00	180.00
3600.00	8.93	224.96	3568.48	-296.76	-296.30	419.36	0.00	0.00	0.00	180.00
3700.00	8.93	224.96	3667.27	-307.74	-307.27	434.88	0.00	0.00	0.00	180.00
3800.00	8.93	224.96	3766.06	-318.72	-318.23	450.39	0.00	0.00	0.00	180.00
3900.00	8.93	224.96	3864.85	-329.70	-329.19	465.91	0.00	0.00	0.00	180.00
4000.00	8.93	224.96	3963.63	-340.68	-340.15	481.42	0.00	0.00	0.00	180.00
4100.00	8.93	224.96	4062.42	-351.66	-351.11	496.93	0.00	0.00	0.00	180.00
4200.00	8.93	224.96	4161.21	-362.64	-362.07	512.45	0.00	0.00	0.00	180.00
4300.00	8.93	224.96	4260.00	-373.62	-373.04	527.96	0.00	0.00	0.00	180.00
4400.00	8.93	224.96	4358.79	-384.59	-384.00	543.48	0.00	0.00	0.00	180.00
4500.00	8.93	224.96	4457.58	-395.57	-394.96	558.99	0.00	0.00	0.00	180.00
4600.00	8.93	224.96	4556.37	-406.55	-405.92	574.50	0.00	0.00	0.00	180.00
4700.00	8.93	224.96	4655.16	-417.53	-416.88	590.02	0.00	0.00	0.00	180.00
4800.00	8.93	224.96	4753.95	-428.51	-427.84	605.53	0.00	0.00	0.00	180.00
4900.00	8.93	224.96	4852.74	-439.49	-438.81	621.05	0.00	0.00	0.00	180.00
5000.00	8.93	224.96	4951.53	-450.47	-449.77	636.56	0.00	0.00	0.00	180.00
5100.00	8.93	224.96	5050.32	-461.44	-460.73	652.08	0.00	0.00	0.00	180.00
5200.00	8.93	224.96	5149.11	-472.42	-471.69	667.59	0.00	0.00	0.00	180.00
5300.00	8.93	224.96	5247.89	-483.40	-482.65	683.10	0.00	0.00	0.00	180.00
5400.00	8.93	224.96	5346.68	-494.38	-493.61	698.62	0.00	0.00	0.00	180.00
5500.00	8.93	224.96	5445.47	-505.36	-504.58	714.13	0.00	0.00	0.00	180.00
5600.00	8.93	224.96	5544.26	-516.34	-515.54	729.65	0.00	0.00	0.00	180.00
5700.00	8.93	224.96	5643.05	-527.32	-526.50	745.16	0.00	0.00	0.00	180.00
5800.00	8.93	224.96	5741.84	-538.30	-537.46	760.67	0.00	0.00	0.00	180.00
5900.00	8.93	224.96	5840.63	-549.27	-548.42	776.19	0.00	0.00	0.00	180.00
6000.00	8.93	224.96	5939.42	-560.25	-559.38	791.70	0.00	0.00	0.00	180.00
6100.00	8.93	224.96	6038.21	-571.23	-570.35	807.22	0.00	0.00	0.00	180.00
6200.00	8.93	224.96	6137.00	-582.21	-581.31	822.73	0.00	0.00	0.00	180.00
6300.00	8.93	224.96	6235.79	-593.19	-592.27	838.25	0.00	0.00	0.00	180.00
6400.00	8.93	224.96	6334.58	-604.17	-603.23	853.76	0.00	0.00	0.00	180.00
6500.00	8.93	224.96	6433.37	-615.15	-614.19	869.27	0.00	0.00	0.00	180.00
6600.00	8.93	224.96	6532.15	-626.12	-625.15	884.79	0.00	0.00	0.00	180.00
6665.64	8.93	224.96	6597.00	-633.33	-632.35	894.97	0.00	0.00	0.00	180.00
6700.00	8.93	224.96	6630.94	-637.10	-636.12	900.30	0.00	0.00	0.00	180.00
6771.93	8.93	224.96	6702.00	-645.00	-644.00	911.46	0.00	0.00	0.00	180.00

# Scientific Drilling International

## Planning Report

Company: Newfield Exploration Co.  
Field: Duchesne County, UT  
Site: Hawkeye V-23-8-16  
Well: H V-32-8-16  
Wellpath: OH

Date: 2006-06-05 Time: 16:36:58  
Co-ordinate(NE) Reference: Well: H V-32-8-16, True North  
Vertical (TVD) Reference: GL 5470' & RKB 12' 5482.0  
Section (VS) Reference: Well (0.00N,0.00E,224.96Azi)  
Plan: Plan #1

Page: 3

### Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
0.00	0.00	224.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	MWD
100.00	0.00	224.96	100.00	0.00	0.00	0.00	0.00	0.00	0.00	MWD
200.00	0.00	224.96	200.00	0.00	0.00	0.00	0.00	0.00	0.00	MWD
300.00	0.00	224.96	300.00	0.00	0.00	0.00	0.00	0.00	0.00	MWD
400.00	0.00	224.96	400.00	0.00	0.00	0.00	0.00	0.00	0.00	MWD
500.00	0.00	224.96	500.00	0.00	0.00	0.00	0.00	0.00	0.00	MWD
600.00	0.00	224.96	600.00	0.00	0.00	0.00	0.00	0.00	0.00	MWD
700.00	1.50	224.96	699.99	-0.93	-0.92	1.31	1.50	1.50	0.00	MWD
800.00	3.00	224.96	799.91	-3.70	-3.70	5.23	1.50	1.50	0.00	MWD
900.00	4.50	224.96	899.69	-8.33	-8.32	11.77	1.50	1.50	0.00	MWD
1000.00	6.00	224.96	999.27	-14.81	-14.78	20.92	1.50	1.50	0.00	MWD
1100.00	7.50	224.96	1098.57	-23.12	-23.09	32.68	1.50	1.50	0.00	MWD
1195.00	8.93	224.96	1192.60	-32.73	-32.68	46.25	1.50	1.50	0.00	MWD
1200.00	8.93	224.96	1197.54	-33.28	-33.23	47.02	0.00	0.00	0.00	MWD
1300.00	8.93	224.96	1296.33	-44.26	-44.19	62.54	0.00	0.00	0.00	MWD
1400.00	8.93	224.96	1395.11	-55.23	-55.15	78.05	0.00	0.00	0.00	MWD
1500.00	8.93	224.96	1493.90	-66.21	-66.11	93.57	0.00	0.00	0.00	MWD
1600.00	8.93	224.96	1592.69	-77.19	-77.07	109.08	0.00	0.00	0.00	MWD
1700.00	8.93	224.96	1691.48	-88.17	-88.03	124.59	0.00	0.00	0.00	MWD
1800.00	8.93	224.96	1790.27	-99.15	-98.99	140.11	0.00	0.00	0.00	MWD
1900.00	8.93	224.96	1889.06	-110.13	-109.96	155.62	0.00	0.00	0.00	MWD
2000.00	8.93	224.96	1987.85	-121.11	-120.92	171.14	0.00	0.00	0.00	MWD
2100.00	8.93	224.96	2086.64	-132.08	-131.88	186.65	0.00	0.00	0.00	MWD
2200.00	8.93	224.96	2185.43	-143.06	-142.84	202.17	0.00	0.00	0.00	MWD
2300.00	8.93	224.96	2284.22	-154.04	-153.80	217.68	0.00	0.00	0.00	MWD
2400.00	8.93	224.96	2383.01	-165.02	-164.76	233.19	0.00	0.00	0.00	MWD
2500.00	8.93	224.96	2481.80	-176.00	-175.73	248.71	0.00	0.00	0.00	MWD
2600.00	8.93	224.96	2580.59	-186.98	-186.69	264.22	0.00	0.00	0.00	MWD
2700.00	8.93	224.96	2679.37	-197.96	-197.65	279.74	0.00	0.00	0.00	MWD
2800.00	8.93	224.96	2778.16	-208.94	-208.61	295.25	0.00	0.00	0.00	MWD
2900.00	8.93	224.96	2876.95	-219.91	-219.57	310.76	0.00	0.00	0.00	MWD
3000.00	8.93	224.96	2975.74	-230.89	-230.53	326.28	0.00	0.00	0.00	MWD
3100.00	8.93	224.96	3074.53	-241.87	-241.50	341.79	0.00	0.00	0.00	MWD
3200.00	8.93	224.96	3173.32	-252.85	-252.46	357.31	0.00	0.00	0.00	MWD
3300.00	8.93	224.96	3272.11	-263.83	-263.42	372.82	0.00	0.00	0.00	MWD
3350.50	8.93	224.96	3322.00	-269.37	-268.96	380.66	0.00	0.00	0.00	Green River
3400.00	8.93	224.96	3370.90	-274.81	-274.38	388.34	0.00	0.00	0.00	MWD
3500.00	8.93	224.96	3469.69	-285.79	-285.34	403.85	0.00	0.00	0.00	MWD
3600.00	8.93	224.96	3568.48	-296.76	-296.30	419.36	0.00	0.00	0.00	MWD
3700.00	8.93	224.96	3667.27	-307.74	-307.27	434.88	0.00	0.00	0.00	MWD
3800.00	8.93	224.96	3766.06	-318.72	-318.23	450.39	0.00	0.00	0.00	MWD
3900.00	8.93	224.96	3864.85	-329.70	-329.19	465.91	0.00	0.00	0.00	MWD
4000.00	8.93	224.96	3963.63	-340.68	-340.15	481.42	0.00	0.00	0.00	MWD
4100.00	8.93	224.96	4062.42	-351.66	-351.11	496.93	0.00	0.00	0.00	MWD
4200.00	8.93	224.96	4161.21	-362.64	-362.07	512.45	0.00	0.00	0.00	MWD
4300.00	8.93	224.96	4260.00	-373.62	-373.04	527.96	0.00	0.00	0.00	MWD
4400.00	8.93	224.96	4358.79	-384.59	-384.00	543.48	0.00	0.00	0.00	MWD
4500.00	8.93	224.96	4457.58	-395.57	-394.96	558.99	0.00	0.00	0.00	MWD
4600.00	8.93	224.96	4556.37	-406.55	-405.92	574.50	0.00	0.00	0.00	MWD
4700.00	8.93	224.96	4655.16	-417.53	-416.88	590.02	0.00	0.00	0.00	MWD
4800.00	8.93	224.96	4753.95	-428.51	-427.84	605.53	0.00	0.00	0.00	MWD
4900.00	8.93	224.96	4852.74	-439.49	-438.81	621.05	0.00	0.00	0.00	MWD
5000.00	8.93	224.96	4951.53	-450.47	-449.77	636.56	0.00	0.00	0.00	MWD
5100.00	8.93	224.96	5050.32	-461.44	-460.73	652.08	0.00	0.00	0.00	MWD

# Scientific Drilling International

## Planning Report

Company: Newfield Exploration Co.  
Field: Duchesne County, UT  
Site: Hawkeye V-23-8-16  
Well: H V-32-8-16  
Wellpath: OH

Date: 2006-06-05 Time: 16:36:58  
Co-ordinate(NE) Reference: Well: H V-32-8-16, True North  
Vertical (TVD) Reference: GL 5470' & RKB 12' 5482.0  
Section (VS) Reference: Well (0.00N,0.00E,224.96Azi)  
Plan: Plan #1

Page: 4

### Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
5200.00	8.93	224.96	5149.11	-472.42	-471.69	667.59	0.00	0.00	0.00	MWD
5300.00	8.93	224.96	5247.89	-483.40	-482.65	683.10	0.00	0.00	0.00	MWD
5400.00	8.93	224.96	5346.68	-494.38	-493.61	698.62	0.00	0.00	0.00	MWD
5500.00	8.93	224.96	5445.47	-505.36	-504.58	714.13	0.00	0.00	0.00	MWD
5600.00	8.93	224.96	5544.26	-516.34	-515.54	729.65	0.00	0.00	0.00	MWD
5700.00	8.93	224.96	5643.05	-527.32	-526.50	745.16	0.00	0.00	0.00	MWD
5800.00	8.93	224.96	5741.84	-538.30	-537.46	760.67	0.00	0.00	0.00	MWD
5900.00	8.93	224.96	5840.63	-549.27	-548.42	776.19	0.00	0.00	0.00	MWD
6000.00	8.93	224.96	5939.42	-560.25	-559.38	791.70	0.00	0.00	0.00	MWD
6100.00	8.93	224.96	6038.21	-571.23	-570.35	807.22	0.00	0.00	0.00	MWD
6200.00	8.93	224.96	6137.00	-582.21	-581.31	822.73	0.00	0.00	0.00	MWD
6300.00	8.93	224.96	6235.79	-593.19	-592.27	838.25	0.00	0.00	0.00	MWD
6400.00	8.93	224.96	6334.58	-604.17	-603.23	853.76	0.00	0.00	0.00	MWD
6500.00	8.93	224.96	6433.37	-615.15	-614.19	869.27	0.00	0.00	0.00	MWD
6600.00	8.93	224.96	6532.15	-626.12	-625.15	884.79	0.00	0.00	0.00	MWD
6665.64	8.93	224.96	6597.00	-633.33	-632.35	894.97	0.00	0.00	0.00	Wasatch
6700.00	8.93	224.96	6630.94	-637.10	-636.12	900.30	0.00	0.00	0.00	MWD
6771.93	8.93	224.96	6702.00	-645.00	-644.00	911.46	0.00	0.00	0.00	BHL

### Targets

Name	Description Dip. Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	← Latitude → Deg Min Sec			← Longitude → Deg Min Sec		
BHL		6702.00	-645.00	-644.00	7206908.33	2037099.50	40	5	46.165 N	110	4	54.968 W
-Plan hit target												

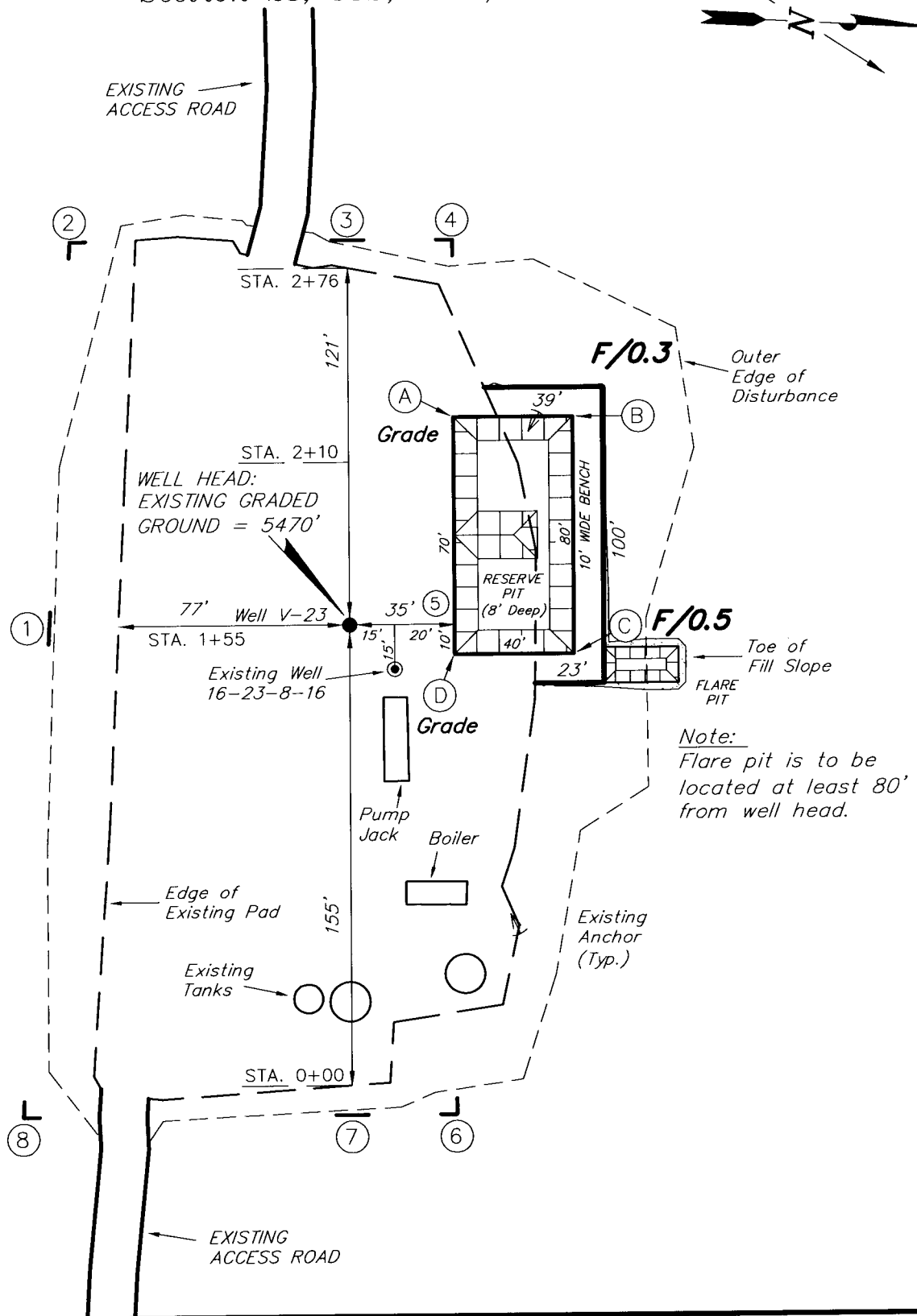
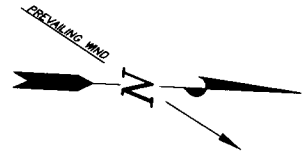
### Formations

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
3350.50	3322.00	Green River		0.00	0.00
6665.64	6597.00	Wasatch		0.00	0.00

# NEWFIELD PRODUCTION COMPANY

**HAWKEYE 16-23-8-16 (V-23)**

Section 23, T8S, R16E, S.L.B.&M.



SURVEYED BY: D.P.

SCALE: 1" = 50'

DRAWN BY: F.T.M.

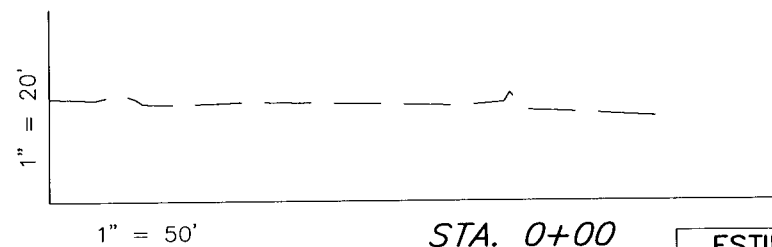
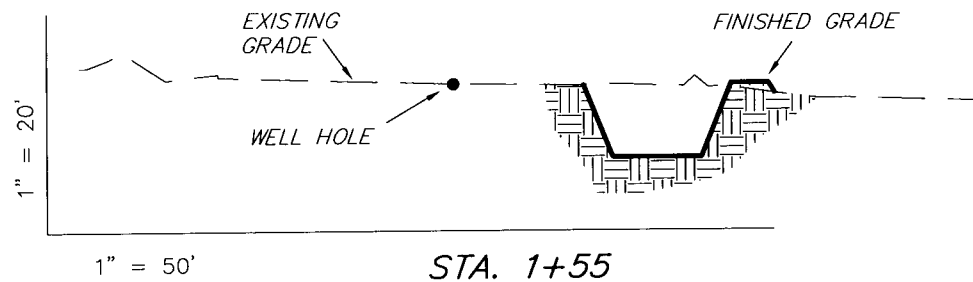
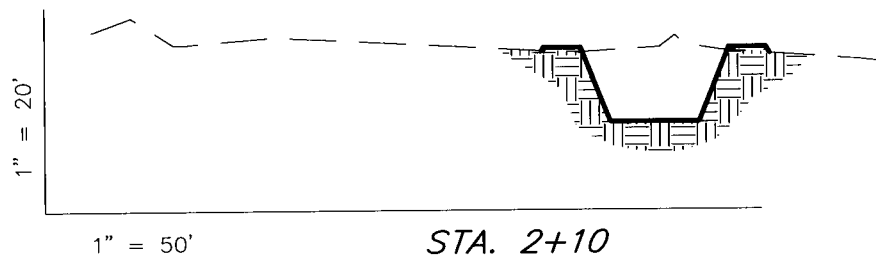
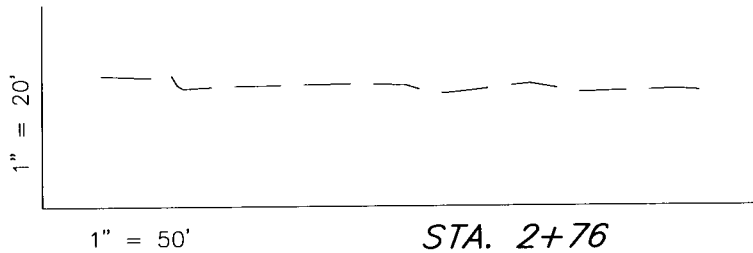
DATE: 05-22-06

**Tri State**  
Land Surveying, Inc.  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078  
(435) 781-2501

# NEWFIELD PRODUCTION COMPANY

## CROSS SECTIONS

HAWKEYE 16-23-8-16 (V-23)



NOTE:  
UNLESS OTHERWISE NOTED  
ALL CUT/FILL SLOPES ARE  
AT 1.5:1

### ESTIMATED EARTHWORK QUANTITIES (No Shrink or swell adjustments have been used) (Expressed in Cubic Yards)

ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	0	60	Topsoil is not included in Pad Cut	-60
PIT	640	0		640
TOTALS	640	60	N/A	580

SURVEYED BY: D.P.

SCALE: 1" = 50'

DRAWN BY: F.T.M.

DATE: 05-22-06

**Tri State**  
Land Surveying, Inc.

(435) 781-2501

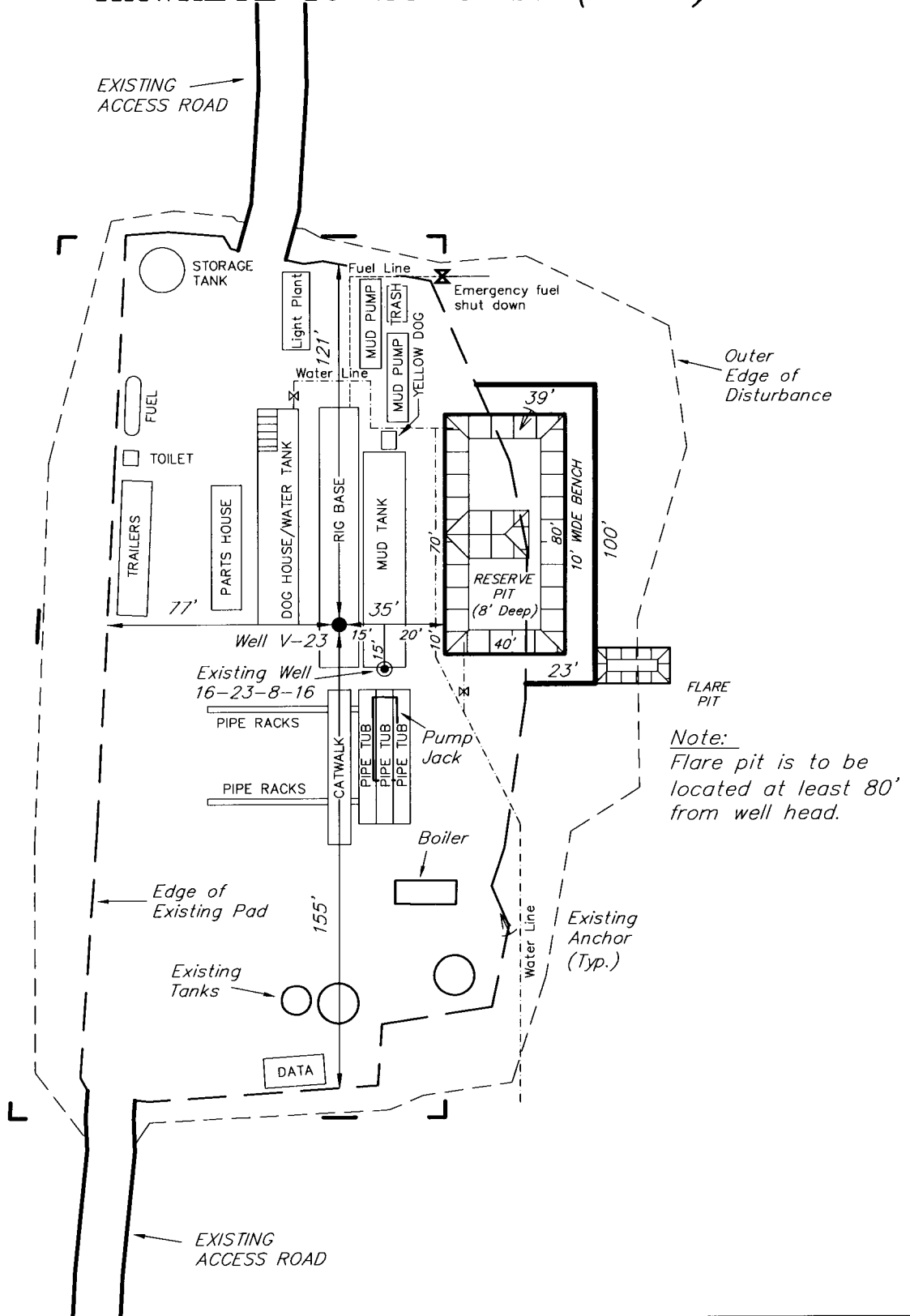
180 NORTH VERNAL AVE. VERNAL, UTAH 84078



# NEWFIELD PRODUCTION COMPANY

## TYPICAL RIG LAYOUT

### HAWKEYE 16-23-8-16 (V-23)



SURVEYED BY: D.P.

SCALE: 1" = 50'

DRAWN BY: F.T.M.

DATE: 05-22-06

**Tri State**  
Land Surveying, Inc.  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078  
(435) 781-2501

# Newfield Production Company Proposed Site Facility Diagram

Hawkeye Federal V-23-8-16

From the 16-23-8-16 Location

SE/SE Sec. 23 T8S, 16E

Duchesne County, Utah

UTU-34346

Site Security Plan is held at the Pleasant Valley  
Office, Duchesne County Utah

## Production Phase:

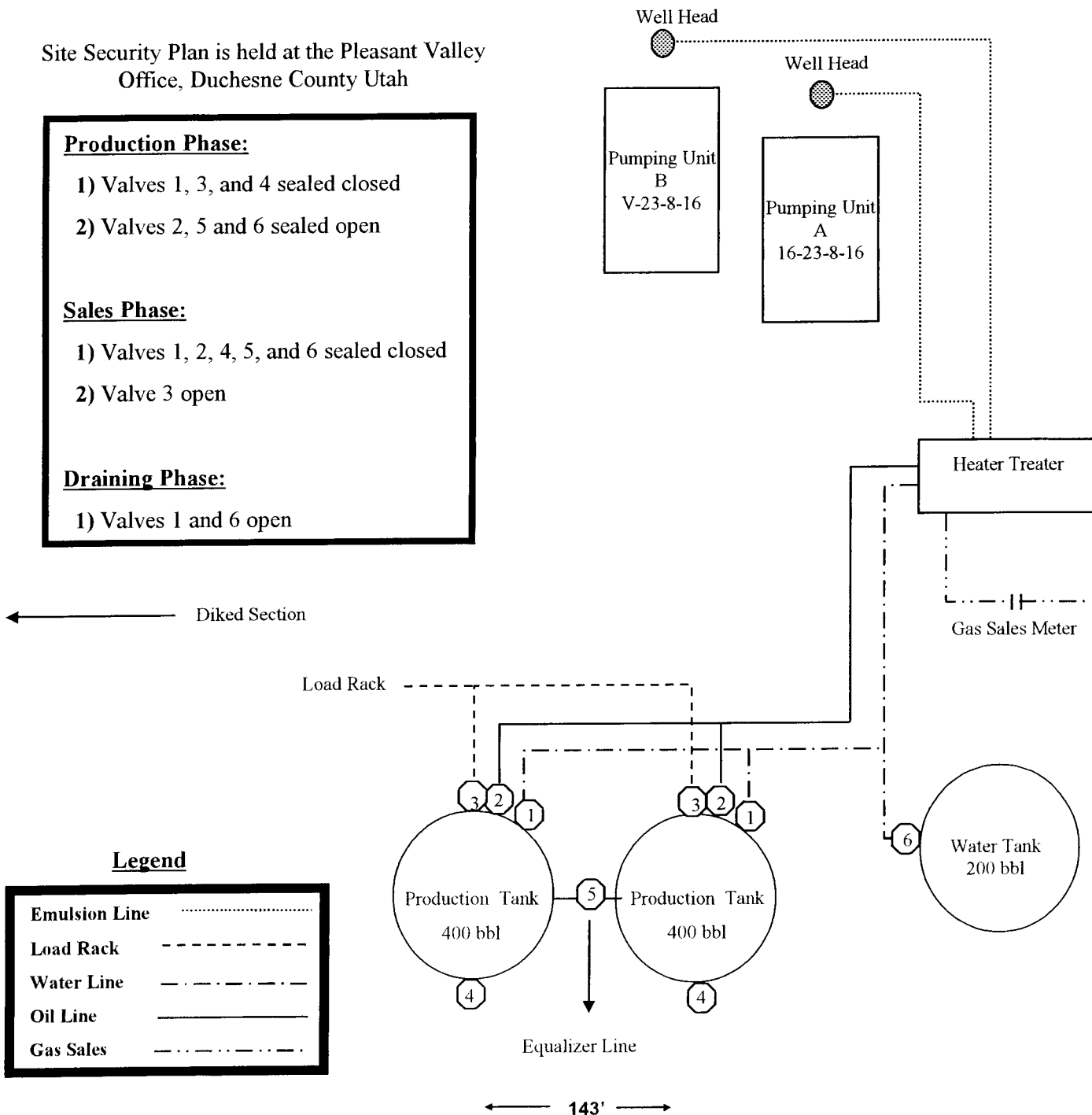
- 1) Valves 1, 3, and 4 sealed closed
- 2) Valves 2, 5 and 6 sealed open

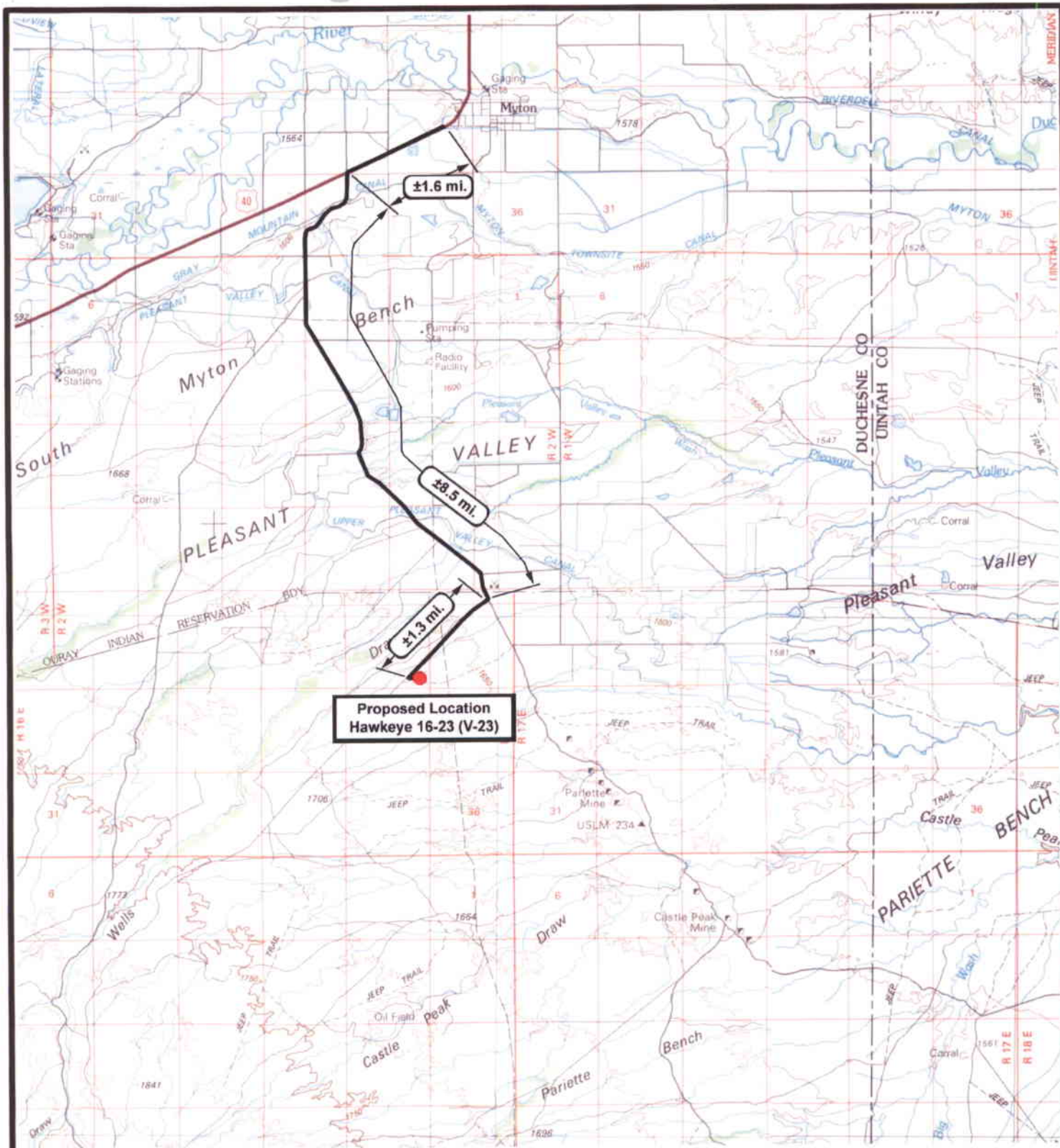
## Sales Phase:

- 1) Valves 1, 2, 4, 5, and 6 sealed closed
- 2) Valve 3 open

## Draining Phase:

- 1) Valves 1 and 6 open





**Hawkeye 16-23-8-16 (V-23)**  
**SEC. 23, T8S, R16E, S.L.B.&M.**

**NEWFIELD**  
 Exploration Company



**Tri-State**  
 Land Surveying Inc.  
 (435) 781-2501  
 180 North Vernal Ave. Vernal, Utah 84078

**SCALE:** 1 = 100,000  
**DRAWN BY:** mw  
**DATE:** 05-24-2006

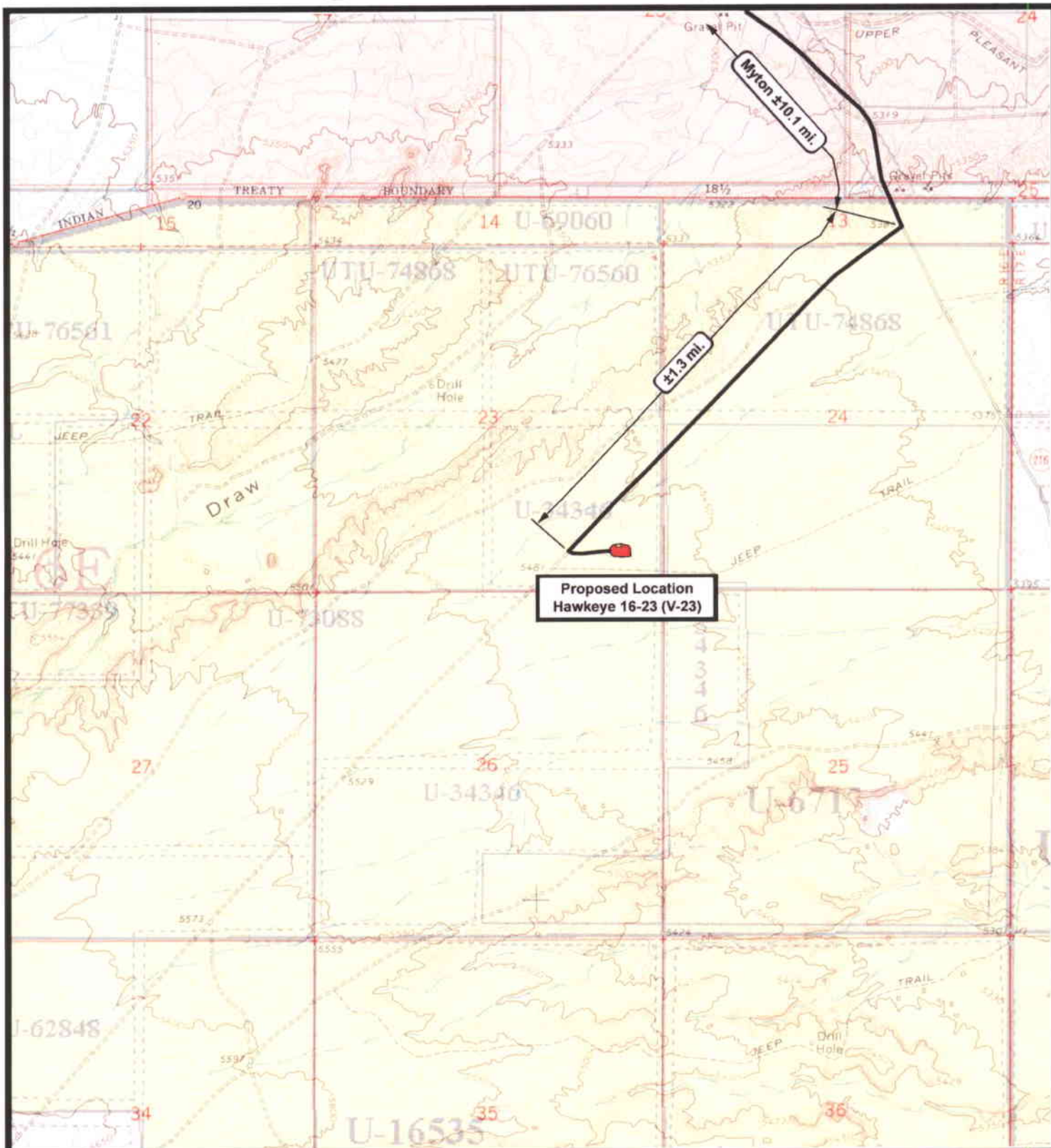
**Legend**

Existing Road

**TOPOGRAPHIC MAP**

**"A"**





**NEWFIELD**  
Exploration Company

**Hawkeye 16-23-8-16 (V-23)**  
**SEC. 23, T8S, R16E, S.L.B.&M.**



**Tri-State**  
Land Surveying Inc.  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1" = 2,000'

DRAWN BY: mw

DATE: 05-24-2006


**Legend**

Existing Road

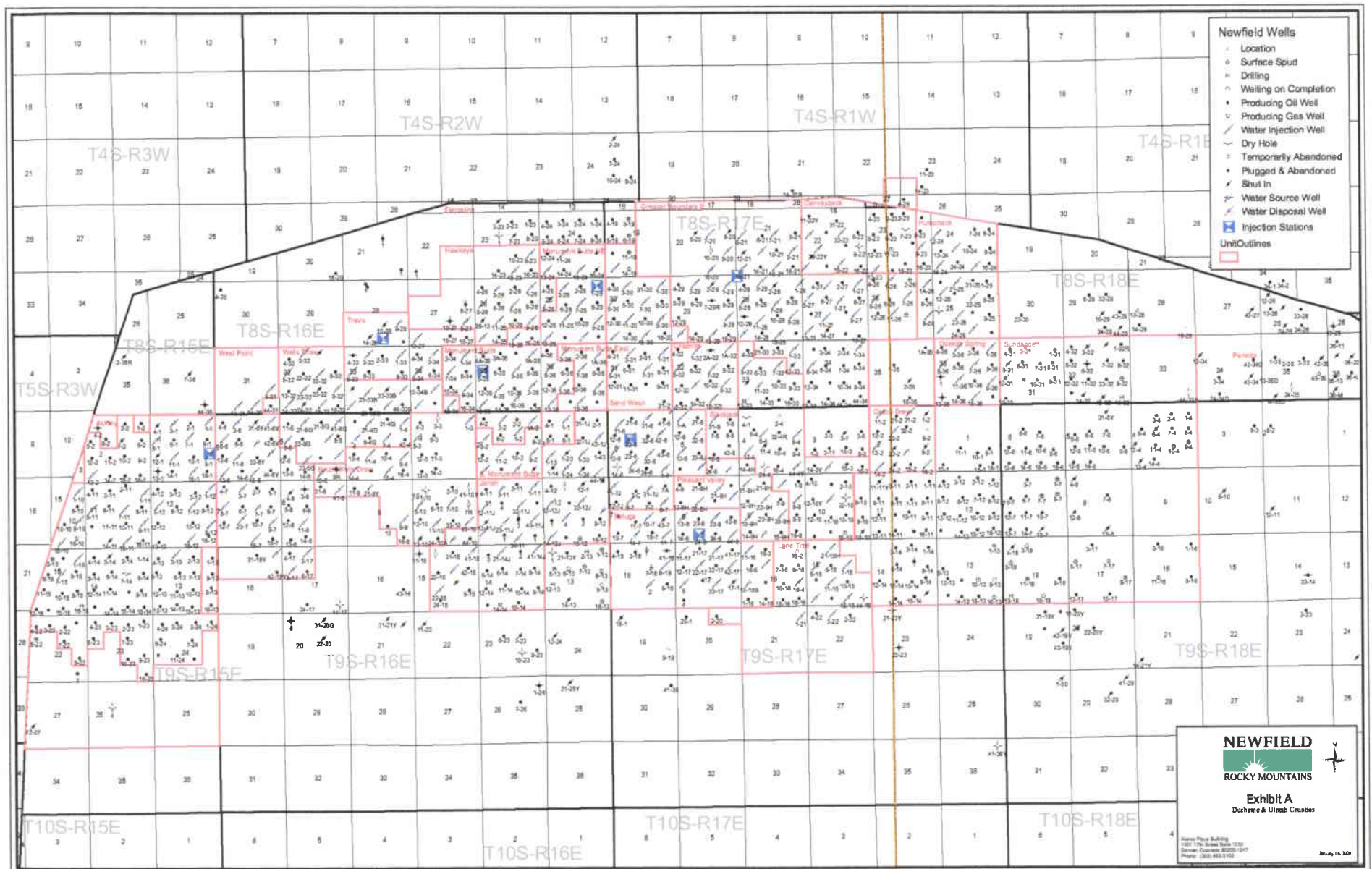
TOPOGRAPHIC MAP

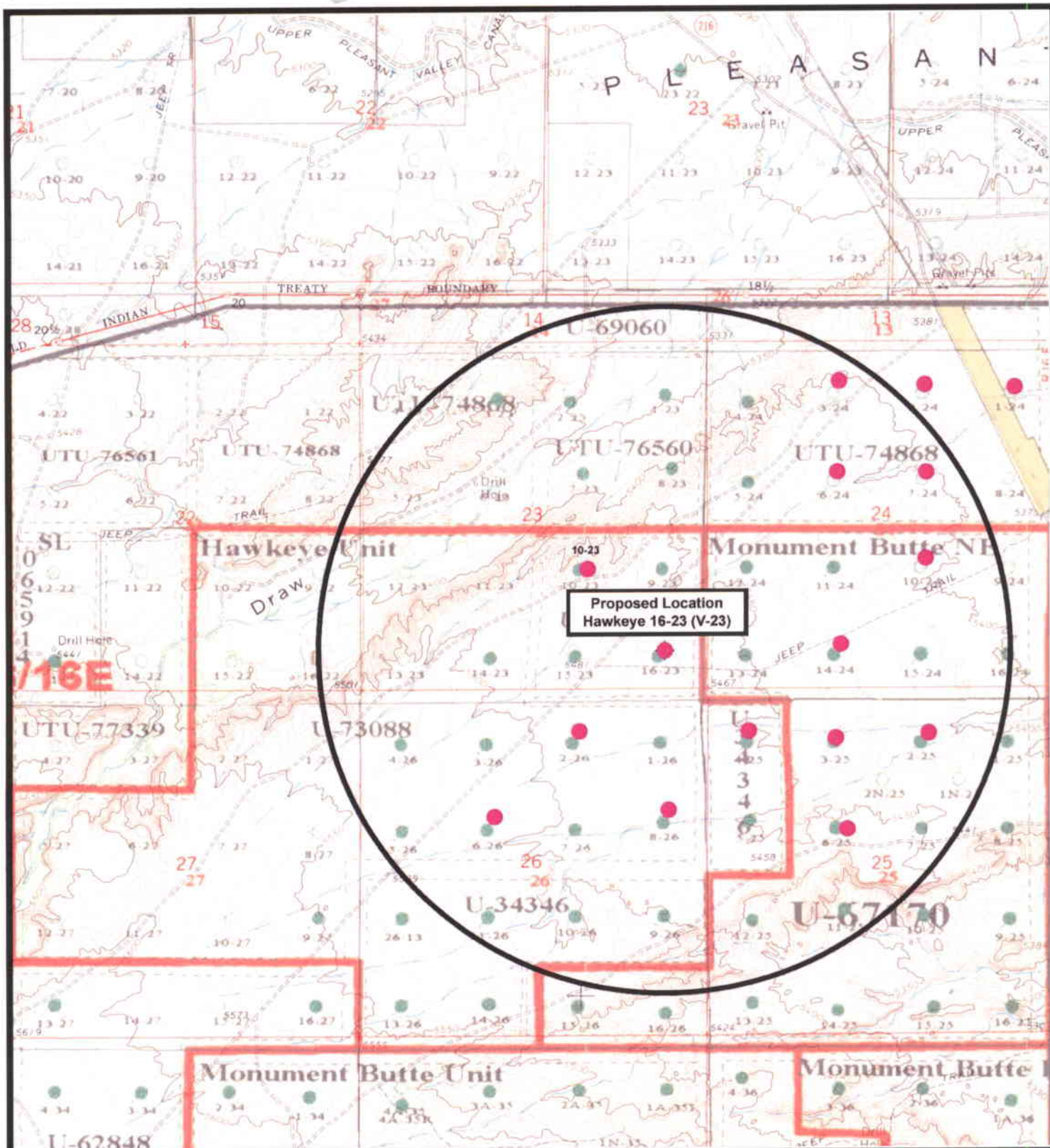
**"B"**



 <p><b>NEWFIELD</b> Exploration Company</p>		 <p><b>Tri-State</b> Land Surveying Inc. (435) 781-2501 180 North Vernal Ave. Vernal, Utah 84078</p>	<p><b>Legend</b></p> <p>— Roads</p> <p>--- Proposed Water Line</p>
<p><b>Hawkeye 16-23-8-16 (V-23)</b> <b>SEC. 23, T8S, R16E, S.L.B.&amp;M.</b></p>		<p><b>SCALE:</b> 1" = 2,000'</p> <p><b>DRAWN BY:</b> mw</p> <p><b>DATE:</b> 05-24-2006</p>	<p><b>TOPOGRAPHIC MAP</b></p> <p><b>"C"</b></p>







Proposed Location  
Hawkeye 16-23 (V-23)



**NEWFIELD**  
Exploration Company

**Hawkeye 16-23-8-16 (V-23)**  
**SEC. 23, T8S, R16E, S.L.B.&M.**



**Tri-State**  
Land Surveying Inc.  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1" = 2,000'

DRAWN BY: mw

DATE: 05-24-2006

**Legend**

- Location
- One-Mile Radius

**Exhibit "B"**

## 2-M SYSTEM

Blowout Prevention Equipment Systems

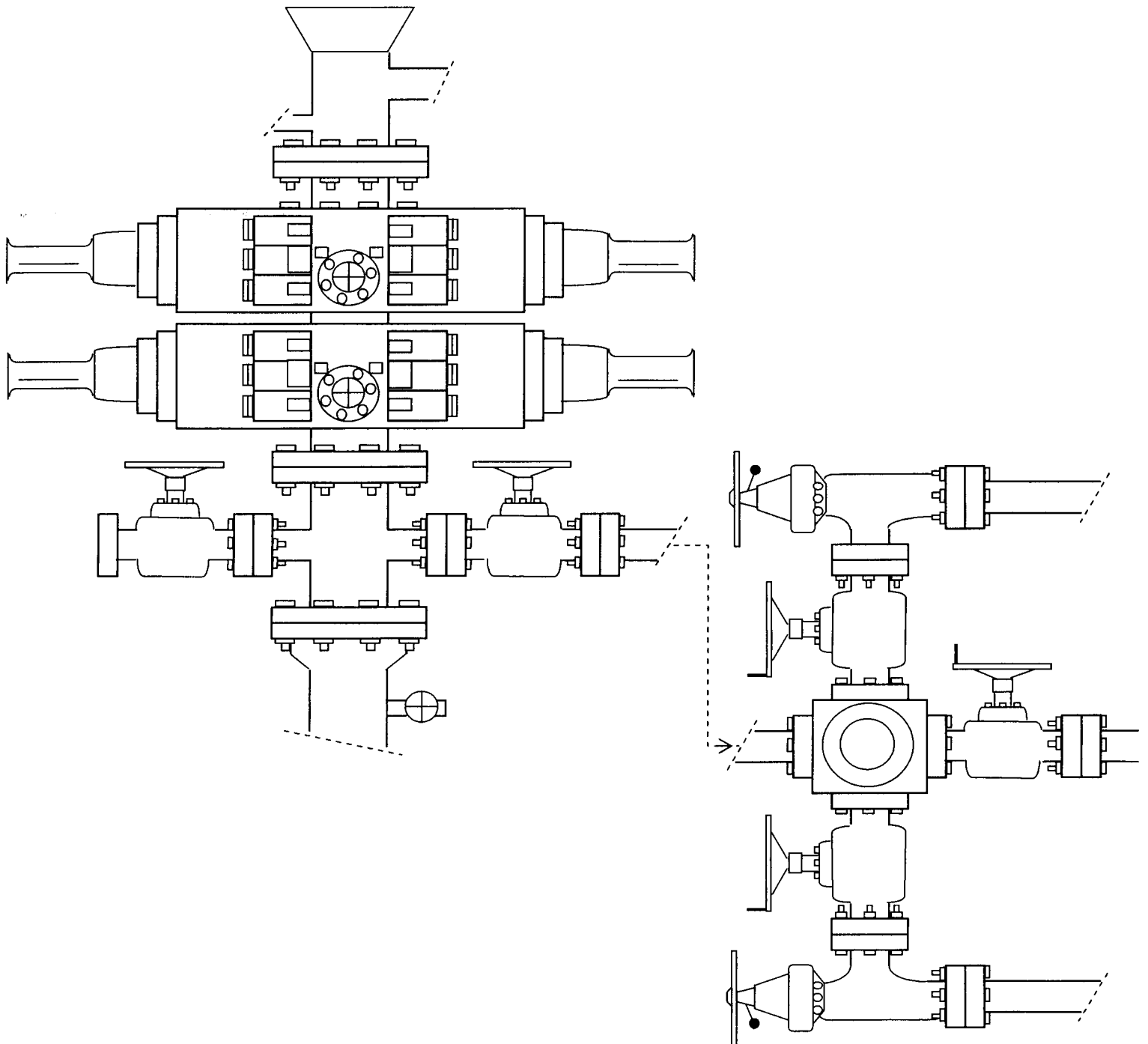


EXHIBIT C



**WORKSHEET**  
**APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 07/31/2006

API NO. ASSIGNED: 43-013-33260

WELL NAME: HAWKEYE FED V-23-8-16

OPERATOR: NEWFIELD PRODUCTION ( N2695 )

CONTACT: MANDIE CROZIER

PHONE NUMBER: 435-646-3721

PROPOSED LOCATION:

SESE 23 080S 160E

SURFACE: 0645 FSL 0676 FEL

BOTTOM: 0000 FSL 1323 FEL

COUNTY: DUCHESNE

LATITUDE: 40.09792 LONGITUDE: -110.0788

UTM SURF EASTINGS: 578521 NORTHINGS: 4438821

FIELD NAME: MONUMENT BUTTE ( 105 )

INSPECT LOCATN BY: / /

Tech Review	Initials	Date
-------------	----------	------

Engineering		
-------------	--	--

Geology		
---------	--	--

Surface		
---------	--	--

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-34346

SURFACE OWNER: 1 - Federal

PROPOSED FORMATION: GRRV

COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

☒ Plat

☒ Bond: Fed[1] Ind[] Sta[] Fee[]  
(No. UTB000192 )

☒ Potash (Y/N)

☒ Oil Shale 190-5 (B) or 190-3 or 190-13

☒ Water Permit  
(No. MUNICIPAL )

☒ RDCC Review (Y/N)  
(Date: \_\_\_\_\_ )

☒ Fee Surf Agreement (Y/N)

☒ Intent to Commingle (Y/N)

LOCATION AND SITING:

R649-2-3.

Unit: HAWKEYE (GREEN RIVER)

R649-3-2. General

Siting: 460 From Qtr/Qtr & 920' Between Wells

R649-3-3. Exception

☒ Drilling Unit

Board Cause No: 213-5

Eff Date: 5-23-1997

Siting: Subsidence General Siting

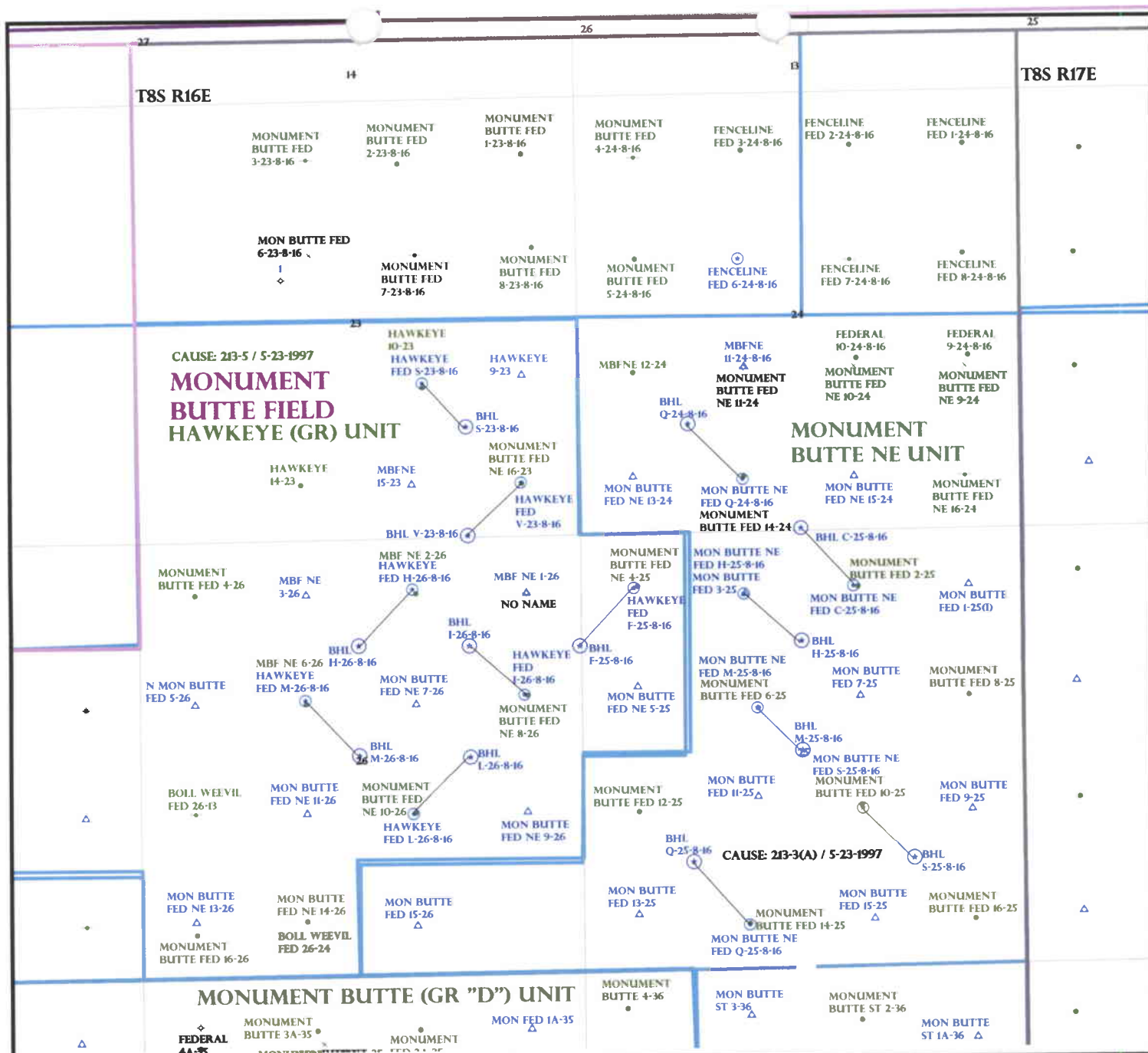
☒ R649-3-11. Directional Drill

COMMENTS:

See Separate File

STIPULATIONS:

1- General Approval



OPERATOR: NEWFIELD PROD CO (N2695)

SEC: 23,26 T.8S R. 16E

FIELD: MONUMENT BUTTE (105)

COUNTY: DUCHESNE

CAUSE: 213-5 / 5-23-1997

**Field Status**

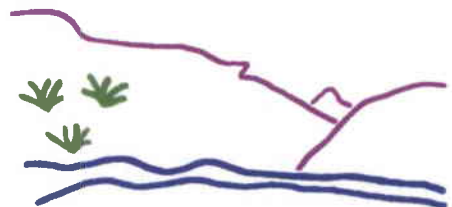
- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- PROPOSED
- STORAGE
- TERMINATED

**Unit Status**

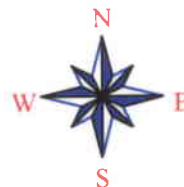
- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PENDING
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

**Wells Status**

- GAS INJECTION
- GAS STORAGE
- LOCATION ABANDONED
- NEW LOCATION
- PLUGGED & ABANDONED
- PRODUCING GAS
- PRODUCING OIL
- SHUT-IN GAS
- SHUT-IN OIL
- TEMP. ABANDONED
- TEST WELL
- WATER INJECTION
- WATER SUPPLY
- WATER DISPOSAL
- DRILLING



Utah Oil Gas and Mining



PREPARED BY: DIANA WHITNEY  
DATE: 15-AUGUST-2006



**State of Utah**  
**Department of**  
**Natural Resources**

MICHAEL R. STYLER  
*Executive Director*

**Division of**  
**Oil, Gas & Mining**

JOHN R. BAZA  
*Division Director*

JON M. HUNTSMAN, JR.  
*Governor*

GARY R. HERBERT  
*Lieutenant Governor*

August 17, 2006

Newfield Production Company  
Rt. #3, Box 3630  
Myton, UT 84052

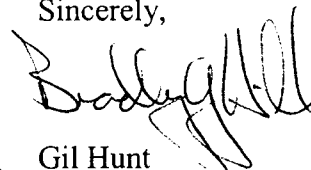
Re: Haweye Federal V-23-8-16 Well, Surface Location 645' FSL, 676' FEL, SE SE, Sec. 23, T. 8 South, R. 16 East, Bottom Location 0000' FSL, 1323' FEL, SE SE, Sec. 23, T. 8 South, R. 16 East, Duchesne County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-013-33260.

Sincerely,

  
for Gil Hunt  
Associate Director

pab  
Enclosures

cc: Duchesne County Assessor  
Bureau of Land Management, Vernal District Office

**Operator:** Newfield Production Company  
**Well Name & Number** Haweye Federal V-23-8-16  
**API Number:** 43-013-33260  
**Lease:** UTU-34346

**Surface Location:** SE SE      **Sec.** 23      **T.** 8 South      **R.** 16 East  
**Bottom Location:** SE SE      **Sec.** 23      **T.** 8 South      **R.** 16 East

### **Conditions of Approval**

**1. General**

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

**2. Notification Requirements**

Notify the Division within 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dan Jarvis at (801) 538-5338

**3. Reporting Requirements**

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

**4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.**

**5. In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

JUL 31 2008

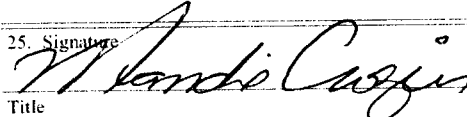
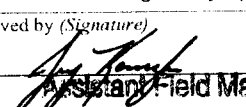
FORM APPROVED  
OMB No. 1004-0136  
Expires January 31, 2004

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU-34346
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name N/A
2. Name of Operator Newfield Production Company		7. If Unit or CA Agreement, Name and No. Hawkeye
3a. Address Route #3 Box 3630, Myton UT 84052		8. Lease Name and Well No. Hawkeye Federal V-23-8-16
3b. Phone No. (include area code) (435) 646-3721		9. API Well No. 43-019-33260
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SE/SE 645' FSL 676' FEL At proposed prod. zone SW/SE 0' FSL 1323' FEL		10. Field and Pool, or Exploratory Monument Butte
14. Distance in miles and direction from nearest town or post office* Approximatley 11.4 miles southwest of Myton, Utah		11. Sec., T., R., M., or Blk. and Survey or Area Sec. 23, T8S R16E
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 0' f/lse, 1323' f/unit	16. No. of Acres in lease 480.00	17. Spacing Unit dedicated to this well 20 Acres
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 1323'	19. Proposed Depth 6702'	20. BLM/BIA Bond No. on file UTB000192
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5470' GL	22. Approximate date work will start* 4th Quarter 2006	23. Estimated duration Approximately seven (7) days from spurt to ng release.

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature 	Name (Printed/Typed) Mandie Crozier	Date 7/25/06
Title Regulatory Specialist		
Approved by (Signature) 	Name (Printed/Typed) Terry Kewala	Date 1-19-2007
Title Assistant Field Manager Lands & Mineral Resources	Office	

Application approval does not warrant or certify the the applicant holds legal or equitable title to the land in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within the jurisdiction of such department or agency.

\*(Instructions on reverse)

Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY

RECEIVED  
JAN 30 2007

DIV. OF OIL, GAS & MINING

NOTICE OF APPROVAL CONDITIONS OF APPROVAL ATTACHED

06Jm0546A

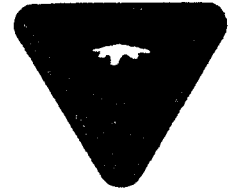
Posted 07/31 - 08/31/06

URDGM



UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
VERNAL FIELD OFFICE

170 South 500 East VERNAL, UT 84078 (435) 781-4400



**CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL**

Company: Newfield Production Co. Location: SWSE, Sec. 23, T8S, R16E  
Well No: Hawkeye Federal V-23-8-16 Lease No: UTU-34346  
API No: 43-013-33260 Agreement: Hawkeye Unit

Petroleum Engineer:	Matt Baker	Office: 435-781-4490	Cell: 435-828-4470
Petroleum Engineer:	Michael Lee	Office: 435-781-4432	Cell: 435-828-7875
Petroleum Engineer:	Jim Ashley	Office: 435-781-4470	Cell: 435-828-7874
Supervisory Petroleum Technician:	Jamie Sparger	Office: 435-781-4502	Cell: 435-828-3913
Environmental Scientist:	Paul Buhler	Office: 435-781-4475	Cell: 435-828-4029
Environmental Scientist:	Karl Wright	Office: 435-781-4484	
Natural Resource Specialist:	Holly Villa	Office: 435-781-4404	
Natural Resource Specialist:	Melissa Hawk	Office: 435-781-4476	
After Hours Contact Number: 435-781-4513		Fax: 435-781-4410	

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR  
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a one-year period. An additional year extension may be applied for by sundry notice prior to expiration.**

**NOTIFICATION REQUIREMENTS**

- Location Construction - Forty-Eight (48) hours prior to construction of location and access roads.  
(Notify Natural Resource Specialist)
- Location Completion - Prior to moving on the drilling rig.  
(Notify Natural Resource Specialist)
- Spud Notice - Twenty-Four (24) hours prior to spudding the well.  
(Notify Petroleum Engineer)
- Casing String & Cementing - Twenty-Four (24) hours prior to running casing and cementing all casing strings.  
(Notify Supervisory Petroleum Technician)
- BOP & Related Equipment Tests - Twenty-Four (24) hours prior to initiating pressure tests.  
(Notify Supervisory Petroleum Technician)
- First Production Notice - Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.  
(Notify Petroleum Engineer)

***SURFACE USE PROGRAM  
CONDITIONS OF APPROVAL (COAs)***

**SITE SPECIFIC CONDITIONS OF APPROVAL**

1. Wildlife stipulations:
  - a. Mountain Plover timing stipulation. No use shall occur from May 1 through June 15. If construction is required during this period, Bureau biologists shall be notified approximately 1 month prior to the start of construction. Prior to construction, a mountain plover survey will need to be conducted according to FWS standards.
  - b. A timing restriction is imposed for construction and drilling, including completion, from April 1 through August 15 in order to protect nesting burrowing owls. If construction is required during this period, Bureau biologist shall be notified approximately 1 month prior to the start of construction.
2. Pipelines will be buried at all major drainage crossings.
3. Low-water crossings will be appropriately constructed to avoid sedimentation of drainageways and other water resources.
4. A 12 mil liner with felt will be installed at reserve pit.
5. If paleontologic or cultural materials are uncovered during construction, the operator shall immediately stop work that might further disturb or move such materials and contact the Authorized Officer (AO) within 48 hours. A determination will be made by the AO as to necessary mitigation for the discovered paleontologic/cultural material.
6. If Uinta Basin hookless cactus or other special status plants are found, construction will cease and the AO will be notified to determine the appropriate mitigation.
7. The interim seed mix for this location shall be:

Western wheatgrass ( <i>Agropyron smithii</i> ):	6 lbs/acre
Galleta grass ( <i>Hilaria jamesii</i> ):	6lbs/acre
<ul style="list-style-type: none"><li>▪ All pounds are in pure live seed.</li><li>▪ Rates are set for drillseeding; double the rate if broadcasting.</li><li>▪ Reseeding may be required if initial seeding is not successful.</li></ul>	
8. The operator will be responsible for treatment and control of invasive and noxious weeds.
9. The topsoil from the reserve pit shall be stripped and piled separately near the reserve pit. When the reserve pit is closed, it shall be recontoured and the topsoil respread, and the area shall be seeded in the same manner as the location topsoil.
10. Once the location is plugged and abandoned, it shall be recontoured to natural contours, topsoil respread where appropriate, and the entire location seeded with a seed mix recommended by the AO (preferably of native origin). Seeding should take place by broadcasting the seed and walking it into the soil with a dozer immediately after the dirt work is completed.

11. The authorized officer may prohibit surface disturbing activities during severe winter conditions to minimize watershed damage. This limitation does not apply to operation and maintenance of producing wells.
12. The authorized officer may prohibit surface disturbing activities during wet or muddy conditions to minimize watershed damage. This limitation does not apply to operation and maintenance of producing wells.

**GENERAL SURFACE CONDITIONS OF APPROVAL**

1. Operator shall notify any active gilsonite mining operation within 2 miles of the location 48 hours prior to any blasting during construction for this well.



## ***DOWNHOLE CONDITIONS OF APPROVAL***

**All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:**

### **SITE SPECIFIC CONDITIONS OF APPROVAL**

1. Production casing cement shall be brought up and into the surface.

### **DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS**

1. There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well. Any changes in operation must have prior approval from the BLM, Vernal Field Office Petroleum Engineers.
2. The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
3. **Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.**
4. Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.

All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.

BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.

Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.

No aggressive/fresh hard-banded drill pipe shall be used within casing.

Cement baskets shall not be run on surface casing.

The lessee/operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled and analyzed (a copy of the analyses to be submitted to the BLM Field Office in Vernal, Utah).

All oil and gas shows shall be adequately tested for commercial possibilities, reported, and protected.

The lessee/operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.

5. All shows of fresh water and minerals shall be reported and protected. A sample shall be taken of any water flows and a water analysis furnished the BLM, Vernal Field Office. All oil and gas shows shall be adequately tested for commercial possibilities, reported, and protected.
6. No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM, Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM, Vernal Field Office shall be obtained and notification given before resumption of operations.
7. Chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
8. Any change in the program shall be approved by the BLM, Vernal Field Office. "Sundry Notices and Reports on Wells" (Form BLM 3160-5) shall be filed for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.

Emergency approval may be obtained orally, but such approval does not waive the written report requirement. Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan pursuant to Onshore Oil & Gas Order No. 1 of 43 CFR 3164.1 and prior approval by the BLM, Vernal Field Office.

In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.

9. Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

10. A cement bond log (CBL) will be run from the production casing shoe to the top of the cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
11. **Please submit an electronic copy of all other logs run on this well in LAS format to UT\_VN\_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
12. All off-lease storage, off-lease measurement, or commingling on-lease or off-lease shall have prior written approval from the BLM, Vernal Field Office.
13. All measurement points shall be identified as point of sales or allocation for royalty determination prior to the installation of facilities.
14. Oil and gas meters shall be calibrated in place prior to any deliveries. The Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM, Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement.
15. A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM, Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
16. This APD is approved subject to the requirement that, should the well be successfully completed for production, the BLM, Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - a. Operator name, address, and telephone number.
  - b. Well name and number.
  - c. Well location (1/4, Sec., Twn, Rng, and P.M.).
  - d. Date well was placed in a producing status (date of first production for which royalty will be paid).
  - e. The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - f. The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.

- g. Unit agreement and / or participating area name and number, if applicable.
  - h. Communitization agreement number, if applicable.
17. Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from Field Office Petroleum Engineers.
  18. All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production
  19. Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
  20. Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

## DIVISION OF OIL, GAS AND MINING

### **SPUDDING INFORMATION**

Name of Company: NEWFIELD PRODUCTION COMPANY

Well Name: HAWKEYE FED V-23-8-16

Api No: 43-013-33260 Lease Type: FEDERAL

Section 23 Township 08S Range 16E County UINTAH

Drilling Contractor ROSS DRILLING RIG # 24

### **SPUDDED:**

Date 03/07/07

Time 8:30 AM

How DRY

**Drilling will Commence:** \_\_\_\_\_

Reported by ALVIN NIELSEN

Telephone # (435) 823-7468

Date 03/07/07 Signed CHD

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
ENTITY ACTION FORM - FORM 6

OPERATOR: NEWFIELD PRODUCTION COMPANY  
ADDRESS: RT. 3 BOX 3630  
MYTON, UT 84062

OPERATOR ACCT. NO. N2686

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
B	99999	12187	43-013-33261	HAWKEYE FEDERAL S-23-8-16	NW/SE	23	8S	18E	DUCHESNE	3/2/2007	3/12/07
WELL 1 COMMENTS: D GRUV BHL = CSE											
B	99999	12187	43-013-33260	HAWKEYE FEDERAL V-23-8-16	SE/SE	23	8S	16E	DUCHESNE	3/7/2007	3/12/07
D GRUV											
A	99999	15971	43-013-330224	FEDERAL 5-20-9-17	SW/NW	20	9S	17E	DUCHESNE	3/1/2007	3/12/07
GRUV 33224											
A	99999	15972	43-013-33193	FEDERAL 7-19-9-17	SW/NE	19	9S	17E	DUCHESNE	3/3/2007	3/12/07
GRUV											
A	99999	15973	43-013-33194	FEDERAL 8-19-9-17	SE/NE	19	9S	17E	DUCHESNE	3/5/2007	3/12/07
WELL 5 COMMENTS: GRUV											
A	99999	15974	43-047-36282	FEDERAL 11-20-8-18	NE/SW	20	8S	18E	UINTAH	3/6/2007	3/12/07
WELL 1 COMMENTS: GRUV											

ACTION CODES (See instructions on back of form)  
A - entity for covered well (single well only)  
B - to existing entity (group or unit well)  
C - new existing entity to another existing entity  
D - new or existing entity to a new entity  
E - explain in comments section

NOTE: Use COMMENTS section to explain why each Action Code was selected.

RECEIVED  
MAR 07 2007

*Lana Nebeker*  
Signature  
LANA NEBEKER  
Production Analyst  
March 7, 2007  
Date

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires January 31, 2004

**SUNDRY NOTICES AND REPORTS ON WELLS**  
Do not use this form for proposals to drill or to re-enter an  
abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.

UTU-34346

6. If Indian, Allottee or Trust Name.

7. If Unit or CA/Agreement, Name and/or

HAWKEYE UNIT

8. Well Name and No.

HAWKEYE FEDERAL V-23-8-16

9. API Well No.

4301333260

10. Field and Pool, or Exploratory Area

MONUMENT BUTTE

11. County or Parish, State

DUCHESNE, UT

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

NEWFIELD PRODUCTION COMPANY

3a. Address Route 3 Box 3630

Myton, UT 84052

3b. Phone (include area code)

435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

645 FSL 676 FEL

SESE Section 23 T8S R16E

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production(Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug & Abandon	<input type="checkbox"/> Temporarily Abandon	Spud Notice _____
	<input type="checkbox"/> Convert to	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	_____

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

On 3/7/07 MIRU Ross # 24. Spud well @ 8:30AM. Drill 325' of 12 1/4" hole with air mist. TIH W/ 7 Jt's 8 5/8" J-55 24 # csqn. Set @ 325.42' On 3/14/07 cement with 160 sks of class "G" w/ 3% CaCL2 + 1/4# sk Cello- Flake Mixed @ 15.8 ppg > 1.17 cf/ sk yeild. Returned 2 bbls cement to pit. WOC.

I hereby certify that the foregoing is true and correct (Printed/ Typed)

Don Bastian

Signature

*Don Bastian*

Title

Drilling Foreman

Date

03/15/2007

Approved by

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title

Date

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on reverse)

RECEIVED

MAR 19 2007

DIV. OF OIL, GAS & MINING

# NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT

8 5/8 CASING SET AT 325.42

LAST CASING 8 5/8" set @ 325.42  
 DATUM 12' KB  
 DATUM TO CUT OFF CASING \_\_\_\_\_  
 DATUM TO BRADENHEAD FLANGE \_\_\_\_\_  
 TD DRILLER 325' LOGGER \_\_\_\_\_  
 HOLE SIZE 12 1/4

OPERATOR Newfield Production Company  
 WELL Federal V-23-8-16  
 FIELD/PROSPECT Monument Butte  
 CONTRACTOR & RIG # Ross Rig # 24

LOG OF CASING STRING:							
PIECES	OD	ITEM - MAKE - DESCRIPTION	WT / FT	GRD	THREAD	CONDT	LENGTH
		Shoe Joint 44.79'					
		WHI - 92 csg head			8rd	A	0.95
7	8 5/8"	Maverick ST&C csg	24#	J-55	8rd	A	313.57
		<b>GUIDE</b> shoe			8rd	A	0.9
CASING INVENTORY BAL.		FEET	JTS	TOTAL LENGTH OF STRING			315.42
TOTAL LENGTH OF STRING		315.42	7	LESS CUT OFF PIECE			2
LESS NON CSG. ITEMS		1.85		PLUS DATUM TO T/CUT OFF CSG			12
PLUS FULL JTS. LEFT OUT		0		CASING SET DEPTH			<b>325.42</b>
TOTAL		313.57	7	} COMPARE			
TOTAL CSG. DEL. (W/O THRDS)		313.57	7				
TIMING		1ST STAGE					
BEGIN RUN CSG.		Spud 3/7/2007	8:30 AM	GOOD CIRC THRU JOB		Yes	
CSG. IN HOLE		3/7/2007	3:00 PM	Bbls CMT CIRC TO SURFACE		2 bbls	
BEGIN CIRC		3/13/2007	10:29 AM	RECIPROCATED PIPE FOR		N/A	
BEGIN PUMP CMT		3/13/2007	10:38 AM				
BEGIN DSPL. CMT		3/13/2007	10:50 AM	BUMPED PLUG TO		145 PSI	
PLUG DOWN		3/13/2007	10:58 AM				
CEMENT USED		CEMENT COMPANY- <b>B. J.</b>					
STAGE	# SX	CEMENT TYPE & ADDITIVES					
1	160	Class "G" w/ 2% CaCL2 + 1/4#/sk Cello-Flake mixed @ 15.8 ppg 1.17 cf/sk yield					
CENTRALIZER & SCRATCHER PLACEMENT			SHOW MAKE & SPACING				
Centralizers - Middle first, top second & third for 3							

COMPANY REPRESENTATIVE Don Bastan DATE 6/13/2007



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**SUNDRY NOTICES AND REPORTS ON WELLS**  
Do not use this form for proposals to drill or to re-enter an  
abandoned well. Use Form 3160-3 (APD) for such proposals.

FORM APPROVED  
OMB No. 1004-0135  
Expires January 31, 2004

SUBMIT IN TRIPlicate - Other instructions on reverse side

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

NEWFIELD PRODUCTION COMPANY

3a. Address

Route 3 Box 3630  
Myton, UT 84052

3b. Phone (include area code)

435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

645 FSL 676 FEL

SESE Section 23 T8S R16E

5. Lease Serial No.

USA UTU-34346

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or

HAWKEYE UNIT

8. Well Name and No.

HAWKEYE FEDERAL V-23-8-16

9. API Well No.

4301333260

10. Field and Pool, or Exploratory Area

MONUMENT BUTTE

11. County or Parish, State

DUCHESNE, UT

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production(Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug & Abandon	<input type="checkbox"/> Temporarily Abandon	Weekly Status Report
	<input type="checkbox"/> Convert to	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomple horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recomple in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

On 3/19/07 MIRU NDSI Rig # 1. Set all equipment. Pressure test on 3/20/07 the Kelly, TIW, Choke manifold, & Bop's to 2,000 psi. Test 8.625 csgn to 1,500 psi. Vernal BLM field, & Roosevelt DOGM office was notified of test. PU BHA and tag cement @ 280'. Drill out cement & shoe. Drill a 7.875 hole with fresh water to a depth of 6,700'. Lay down drill string & BHA. Open hole log w/ Dig/SP/GR log's TD to surface. PU & TIH with Guide shoe, shoe jt, float collar, 151 jt's of 5.5 J-55, 15.5# csgn. Set @ 6691.82' / KB. Cement with 325 sks cement mixed @ 11.0 ppg & 3.43 yld. Then 480 sks cement mixed @ 14.4 ppg & 1.24 yld. With 28 bbls cement returned to pit. Nipple down Bop's. Drop slips @80,000 #'s tension. Release rig 8:30 PM 3/28/07

I hereby certify that the foregoing is true and correct (Printed/ Typed)

Alvin Nielsen

Signature

Title

Drilling Foreman

Date

03/29/2007

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title

Date

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

RECEIVED

(Instructions on reverse)

MAR 30 2007

DIV. OF OIL, GAS & MINING

# NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT

5 1/2" CASING SET AT 6691.82

Flt cllr @ 6670.57'

LAST CASING 8 5/8" SET # 325.42'  
 DATUM 12' KB  
 DATUM TO CUT OFF CASING 12'  
 DATUM TO BRADENHEAD FLANGE \_\_\_\_\_  
 TD DRILLER 6693 Loggers 6688'  
 HOLE SIZE 7 7/8"

OPERATOR Newfield Production Company  
 WELL Hawkeye Fed.V-23-8-16  
 FIELD/PROSPECT Monument Butte  
 CONTRACTOR & RIG # NDSI #2

LOG OF CASING STRING:							
PIECES	OD	ITEM - MAKE - DESCRIPTION	WT / FT	GRD	THREAD	CONDT	LENGTH
		Landing Jt					14
		<b>Short jt</b> 4509.76' (6.90')					
<b>151</b>	<b>5 1/2"</b>	ETC LT & C casing	<b>15.5#</b>	<b>J-55</b>	<b>8rd</b>	<b>A</b>	6658.57
		Float collar					0.6
<b>1</b>	<b>5 1/2"</b>	ETC LT&C csg	<b>15.5#</b>	<b>J-55</b>	<b>8rd</b>	<b>A</b>	20
		<b>GUIDE</b> shoe			<b>8rd</b>	<b>A</b>	0.65
CASING INVENTORY BAL.		FEET	JTS	TOTAL LENGTH OF STRING			6693.82
TOTAL LENGTH OF STRING		6693.82	152	LESS CUT OFF PIECE			14
LESS NON CSG. ITEMS		15.25		PLUS DATUM TO T/CUT OFF CSG			12
PLUS FULL JTS. LEFT OUT		178.41	4	CASING SET DEPTH			<b>6691.82</b>
TOTAL		<b>6856.98</b>	156	} COMPARE			
TOTAL CSG. DEL. (W/O THRDS)		6856.98	156				
TIMING		1ST STAGE	2nd STAGE				
BEGIN RUN CSG.		8:30 AM	3/28/2007	GOOD CIRC THRU JOB <u>Yes</u>			
CSG. IN HOLE		12:30 PM	3/28/2007	Bbls CMT CIRC TO SURFACE <u>28</u>			
BEGIN CIRC		1:00 PM	3/28/2007	RECIPROCATED PIPE FOR <u>THRUSTROKE</u> <u>NA</u>			
BEGIN PUMP CMT		2:44 PM	3/28/2007	DID BACK PRES. VALVE HOLD ? _____			
BEGIN DSPL. CMT		3:46 PM	3/28/2007	BUMPED PLUG TO <u>2080</u> PSI			
PLUG DOWN		<b>4:14 PM</b>	<b>3/28/2007</b>				
CEMENT USED		CEMENT COMPANY- <b>B. J.</b>					
STAGE	# SX	CEMENT TYPE & ADDITIVES					
<b>1</b>	<b>325</b>	Premilite II w/ 10% gel + 3 % KCL, 3#s /sk CSE + 2# sk/kolseal + 1/2#s/sk Cello Flake					
		mixed @ 11.0 ppg W / 3.43 cf/sk yield					
<b>2</b>	<b>480</b>	50/50 poz W/ 2% Gel + 3% KCL, .5%EC1, 1/4# sk C.F. 2% gel. 3% SM mixed @ 14.4 ppg W/ 1.24 YLD					
CENTRALIZER & SCRATCHER PLACEMENT			SHOW MAKE & SPACING				
Centralizers - Middle first, top second & third. Then every third collar for a total of 20.							

COMPANY REPRESENTATIVE Don Bastian DATE 3/28/2007

RECEIVED

MAR 30 2007

DIV. OF OIL, GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**SUNDRY NOTICES AND REPORTS ON WELLS**  
Do not use this form for proposals to drill or to re-enter an  
abandoned well. Use Form 3160-3 (APD) for such proposals.

FORM APPROVED  
OMB No. 1004-0135  
Expires January 31, 2004

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

NEWFIELD PRODUCTION COMPANY

3a. Address Route 3 Box 3630  
Myton, UT 84052

3b. Phone (include area code)  
435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
645 FSL 676 FEL  
SESE Section 23 T8S R16E

5. Lease Serial No.

USA UTU-34346

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or

HAWKEYE UNIT

8. Well Name and No.

HAWKEYE FEDERAL V-23-8-16

9. API Well No.

4301333260

10. Field and Pool, or Exploratory Area

MONUMENT BUTTE

11. County or Parish, State

DUCHESNE, UT

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production(Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug & Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to	<input type="checkbox"/> Plug Back	<input checked="" type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Formation water is produced to a steel storage tank. If the production water meets quality guidelines, it is transported to the Ashley, Monument Butte, Jonah, and Beluga water injection facilities by company or contract trucks. Subsequently, the produced water is injected into approved Class II wells to enhance Newfield's secondary recovery project.

Water not meeting quality criteria, is disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E) or at State of Utah approved surface disposal facilities.

Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY

I hereby certify that the foregoing is true and  
correct (Printed/ Typed)

Mandie Crozier

Signature

Title

Regulatory Specialist

Date

05/07/2007

Approved by

Conditions of approval, if any, are attached. Approval of this notice does not warrant or  
certify that the applicant holds legal or equitable title to those rights in the subject lease  
which would entitle the applicant to conduct operations thereon.

Title

Date

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United  
States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on reverse)

RECEIVED

MAY 10 2007

DIV. OF OIL, GAS & MINING

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER:

USA UTU-34346

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

HAWKEYE UNIT

8. WELL NAME and NUMBER:

HAWKEYE FEDERAL V-23-8-16

9. API NUMBER:

4301333260

10. FIELD AND POOL, OR WILDCAT:

MONUMENT BUTTE

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL:

OIL WELL ☒ GAS WELL ☐ OTHER

2. NAME OF OPERATOR:

NEWFIELD PRODUCTION COMPANY

3. ADDRESS OF OPERATOR:

Route 3 Box 3630 CITY Myton STATE UT ZIP 84052

PHONE NUMBER

435.646.3721

4. LOCATION OF WELL:

FOOTAGES AT SURFACE: 645 FSL 676 FEL

COUNTY: DUCHESNE

OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: SESE, 23, T8S, R16E

STATE: UT

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will  	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARITLY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of Work Completion:  05/29/2007	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/STOP)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: - Weekly Status Report
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The above subject well was completed on 05/06/07, attached is a daily completion status report.

RECEIVED

JUN 01 2007

DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT) Jentri Park

TITLE Production Clerk

SIGNATURE

DATE 05/29/2007

(This space for State use only)

**Daily Activity Report**

Format For Sundry

**HAWKEYE V-23-8-16****2/1/2007 To 6/30/2007****4/21/2007 Day: 1****Completion**

Rigless on 4/20/2007 - Install 5M frac head. NU Cameron BOP. RU H/O truck & pressure test casing, frac head, blind rams & casing valves to 4500 psi. RU Perforators LLC WLT w/ mast & run CBL under pressure. WLTD @ 6624' & cement top @ 32'. Perforate stage #1 W/ 4" ported gun as follows: CP1 sds @ 6203-6210' W/ 4 JSPF for total of 28 shots. RD WLT. SIFN W/ est 159 BWTR.

**4/28/2007 Day: 2****Completion**

Rigless on 4/27/2007 - RU BJ Services "Ram Head" frac flange. RU BJ & frac CP1 sds, stage #1 down casing w/ 40,893#'s of 20/40 sand in 418 bbls of Lightning 17 frac fluid. Open well w/ 0 psi on casing. Perfs broke down @ 2905 psi. Treated @ ave pressure of 2508 @ ave rate of 24.7 bbls bpm w/ 8 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for the next stage. ISIP was 2800. 577 bbls EWTR. Leave pressure on well RU Perforators LLC WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" composite (6k) flow through frac plug & 6' perf gun. Set plug @ 5550'. Peforate C sds @ 5440-50' w/ 3-1/8" Slick Guns (19 gram, .49"HE, 120°) w/ 4 spf for total of 24 shots. RU BJ & frac stage #2 w/ 20,090#'s of 20/40 sand in 304 bbls of Lightning 17 frac fluid. Open well w/ 1945 psi on casing. Perfs broke down @ 4135 psi. Treated @ ave pressure of 2038 @ ave rate of 25.2 bbls bom w/ 6.5 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for the next stage. ISIP was 1820. 880 bbls EWTR. Leave pressure on well. RU WLT. RIH w/ solid frac plug & 8', 10' perf guns. Set plug @ 5370'. Peforate D2 sds @ 5266-74', D1 sds @ 5214-24' w/ 4 spf for total of 72 shots. RU BJ & frac stage #3 w/ 101,501#'s of 20/40 sand in 717 bbls of Lightning 17 frac fluid. Open well w/ 614 psi on casing. Perfs broke down @ 2380 psi. Treated @ ave pressure of 1766 @ ave rate of 25 bpm w/ 8 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for the next stage. ISIP was 1960. 1597 bbls EWTR. Leave pressure on well. RU WLT. RIH w/ frac plug & 10' perf guns. Set plug @ 4820'. Peforate GB4 sds @ 4712-22' w/ 4 spf for total of 40 shots. RU BJ & frac stage #4 w/ 50,402#'s of 20/40 sand in 416 bbls of Lightning 17 frac fluid. Open well w/ 1675 psi on casing. Perfs broke down @ 1990 psi. Treated @ ave pressure of 2574 @ ave rate of 28 bpm w/ 8 ppg of sand. ISIP was 2775. 2013 bbls EWTR. RD BJ & WLT. Flow well back. Well flowed for 7 hours & died w/ 490 bbls rec'd. SIFN.

**4/29/2007 Day: 3****Completion**

NC #1 on 4/28/2007 - :30AM MIRU NC#1, R/U R/pmp, OWU W/-1300 Psi, Well Flowed 4 Hrs, Total Of 480 Bbls Wtr, 2% Oil Cut, Turn Well Over To Flow Tester, 4:30PM C/SDFN. Well Flowing To Production Tank.

**5/1/2007 Day: 4****Completion**

NC #1 on 4/30/2007 - 6:30AM Well Still Flowing, R/U W/Line To Set Kill Plg @ 4650', R/D W/Line, N/D Camron BOP & Frac HD, N/U 3,000 Flnge & Shafer BOP. P/U & RIH W/-4 3/4 Bit, Bit Sub, 35 Jts Tbg, SWI Due To Rig Transmission Problem, 1:30PM C/SDFD.

**5/3/2007 Day: 5****Completion**

NC #1 on 5/2/2007 - 6:30AM OWU, RIH W/-113 Jts Tbg To Kill Plg @ 4650', R/U Nabors Pwr Swvl, Drill Up Plg, Swvl I/Hle To Plg @ 4820', Drill Up Plg, Swvl I/Hle To Fill @ 5267', C/Out To Plg @ 5370', Drill Up Plg, Swvl I/Hle To Plg @ 5550', Drill Up Plg, Swvl I/Hle To Fill @ 6483', C/Out To PBTD @ 6667.41', Curc Well Clean, R/D Pwr Swvl, POOH W/-5 Jts Tbg EOB @ 6534', SWI, 6:00PM C/SDFN. Gained 60 Bbls Wtr On C/Out To PBTD.

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5/4/2007 Day: 6

Completion

NC #1 on 5/3/2007 - 6:30AM OWU W/-100 Psi On Tbg, 140 Psi On Csg, Well Flowed 71 Bbls Wtr, Flow Dropped Down To 1/4 BPM, R/U Swab, Made 14 Swab Runs Thru Day, Recvred 165 Bbls Wtr, Lite Trce Oil, Lite Trce Sand, FFL @ 1500', R/D Swab, SWI, 6:00PM C/SDFN.

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5/7/2007 Day: 7

Completion

NC #1 on 5/6/2007 - 6:30AM OWU W/- 225 Psi On Tbg, 350 Psi On Csg, pmp 15 Bbls Wtr D/Tbg Due To Well Flowing, RIH W/-Tbg To Fill @ 6662', C/Out To PBTD @ 6667', Curc Well Clean, POOH W/-212 Jts Tbg, Bit Sub & Bit. P/U & RIH W/-Tbg Production String Shown Below. N/D BOP, Set T/A In 15,000 Tension, N/U W/-HD. R/U R/pmp & Flsh Tbg W/-60 Bbls Wtr, P/U Stroke & RIH W/-CDI-2 1/2x1 3/4x20' RHAC & Rod String Shown Below. R/U Unit, Hole Standing Full, Stroke Unit & Tbg To 800 Psi, Good Test. R/D Eq, R/D Rig. POP @ 6:30PM, 144" SL, 5 SPM, ( Final Report ).

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Pertinent Files: Go to File List

SUBMIT IN DUPLICATE\*  
(See other in-  
structions on  
reverse side)

FORM APPROVED  
OMB NO. 1004-0137  
Expires: February 28, 1995

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

WELL COMPLETION OR RECOMPLETION REPORT AND LOG\*

1a. TYPE OF WORK

OIL WELL ☒ GAS WELL ☐ DRY ☐ Other \_\_\_\_\_

1b. TYPE OF WELL

NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF RESVR. ☐ Other \_\_\_\_\_

2. NAME OF OPERATOR

Newfield Exploration Company

3. ADDRESS AND TELEPHONE NO.

1401 17th St. Suite 1000 Denver, CO 80202

4. LOCATION OF WELL (Report locations clearly and in accordance with any State requirements.)\*

At Surface 645' FSL & 676' FEL (SE/SE) Sec. 23, T8S, R16E  
At top prod. Interval reported below

5. LEASE DESIGNATION AND SERIAL NO.

UTU-34346

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

NA

7. UNIT AGREEMENT NAME

Hawkeye

8. FARM OR LEASE NAME, WELL NO.

Hawkeye V-23-8-16

9. WELL NO.

43-013-33260

10. FIELD AND POOL OR WILDCAT

Monument Butte

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

Sec. 23, T8S, R16E

At total depth

22 fml 1418 fel 2685146

14. API NO.

43-013-33260

DATE ISSUED

08/17/06

12. COUNTY OR PARISH

Duchesne

13. STATE

UT

15. DATE SPUDDED

03/07/07

16. DATE T.D. REACHED

03/27/07

17. DATE COMPL. (Ready to prod.)

05/04/07

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\*

5470' GL

19. ELEV. CASINGHEAD

5482' KB

20. TOTAL DEPTH, MD & TVD

6700' 6610

21. PLUG BACK T.D., MD & TVD

6667' 6578

22. IF MULTIPLE COMPL., HOW MANY\*

23. INTERVALS DRILLED BY

----->

ROTARY TOOLS

X

CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION--TOP, BOTTOM, NAME (MD AND TVD)\*

Green River 4712'-6210'

25. WAS DIRECTIONAL SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

Dual Induction Guard, SP, Compensated Density, Compensated Neutron, GR, Caliper, Cement Bond Log

27. WAS WELL CORED

No

23. CASING RECORD (Report all strings set in well)

CASING SIZE/GRADE	WEIGHT, LB/FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
8-5/8" - J-55	24#	325'	12-1/4"	To surface with 160 sx Class "G" cmt	
5-1/2" - J-55	15.5#	6692'	7-7/8"	325 sx Premlite II and 480 sx 50/50 Poz	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-7/8"	EOT @ 6292'	TA @ 6193'

31. PERFORATION RECORD (Interval, size and number)

INTERVAL	SIZE	SPF/NUMBER	DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
(CP1) 6203'-6210'	.49"	4/28	6203'-6210'	Frac w/ 40,893# 20/40 sand in 418 bbls fluid
(C) 5444'-5450'	.49"	4/24	5444'-5450'	Frac w/ 20,090# 20/40 sand in 304 bbls fluid
(D2 & 1) 5266'-74', 5214'-24'	.43"	4/72	5214'-5274'	Frac w/ 101,501# 20/40 sand in 717 bbls fluid
(GB4) 4712'-4722'	.43"	4/40	4712'-4722'	Frac w/ 50,402# 20/40 sand in 416 bbls fluid

33.\* PRODUCTION

DATE FIRST PRODUCTION 05/04/07		PRODUCTION METHOD (Flowing, gas lift, pumping--size and type of pump) 2-1/2" x 1-3/4" x 20' RHAC SM Plunger Pump					WELL STATUS (Producing or shut-in) PRODUCING	
DATE OF TEST 10 day ave	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD ----->	OIL--BBL. 34	GAS--MCF. 39	WATER--BBL. 91	GAS-OIL RATIO 1147	
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE ----->	OIL-BBL.	GAS--MCF.	WATER--BBL.	OIL GRAVITY (API GRAVITY)		

RECEIVED  
JUN 01 2007

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

Sold & Used for Fuel

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

Jerry Park

TITLE

Production Clerk

DATE

5/29/2007

JP

\*(See Instructions and Spaces for Additional Data on Reverse Side)

RECEIVED  
JUN 01 2007

DIV. OF OIL, GAS & MINING

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals, and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries);				38. GEOLOGIC MARKERS		
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
			Well Name Hawkeye V-23-8-16	Garden Gulch Mkr	4192'	
				Garden Gulch 1	4404'	
				Garden Gulch 2	4526'	
				Point 3 Mkr	4818'	
				X Mkr	5062'	
				Y-Mkr	5095'	
				Douglas Creek Mkr	5192'	
				BiCarbonate Mkr	5498'	
				B Limestone Mkr	5638'	
				Castle Peak	6148'	
				Basal Carbonate	6546'	
				Total Depth (LOGGERS	6688'	

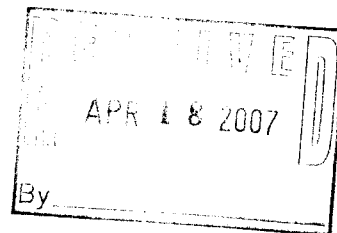




**Scientific  
Drilling**

7327 West Barton Road  
Casper, WY 82604  
(307)-472-6621 Fax (307) 472-5439

## Directional Survey Certification



RE: _____	Newfield Exploration Co.	<b>Operator</b>
_____	Hawkeye V-23-8-16	<b>Well Name &amp; No.</b>
_____	Duchesne County, UT	<b>County &amp; State</b>
_____	41DEF0703227	<b>SDI Job No.</b>

I, Julie Cruse, having personal knowledge of all the facts, hereby certify that the attached directional survey run from a measured depth of 357 feet to a measured depth of 6700 feet is true and correct as determined from all available records.

Julie Cruse  
Signature

Rockies Region Engineer  
Title

Scientific Drilling International  
Company

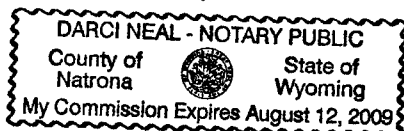
State of : Wyoming }  
County of : Natrona } ss

On this 14th day of April, 2007, before me personally appeared Julie Cruse to me known as the person described in and who executed the foregoing instrument and acknowledged that (s)he executed the same as his/her free act and deed.

Seal

Darci Neal  
Notary Public

Aug 12, 2009  
My Commission Expires

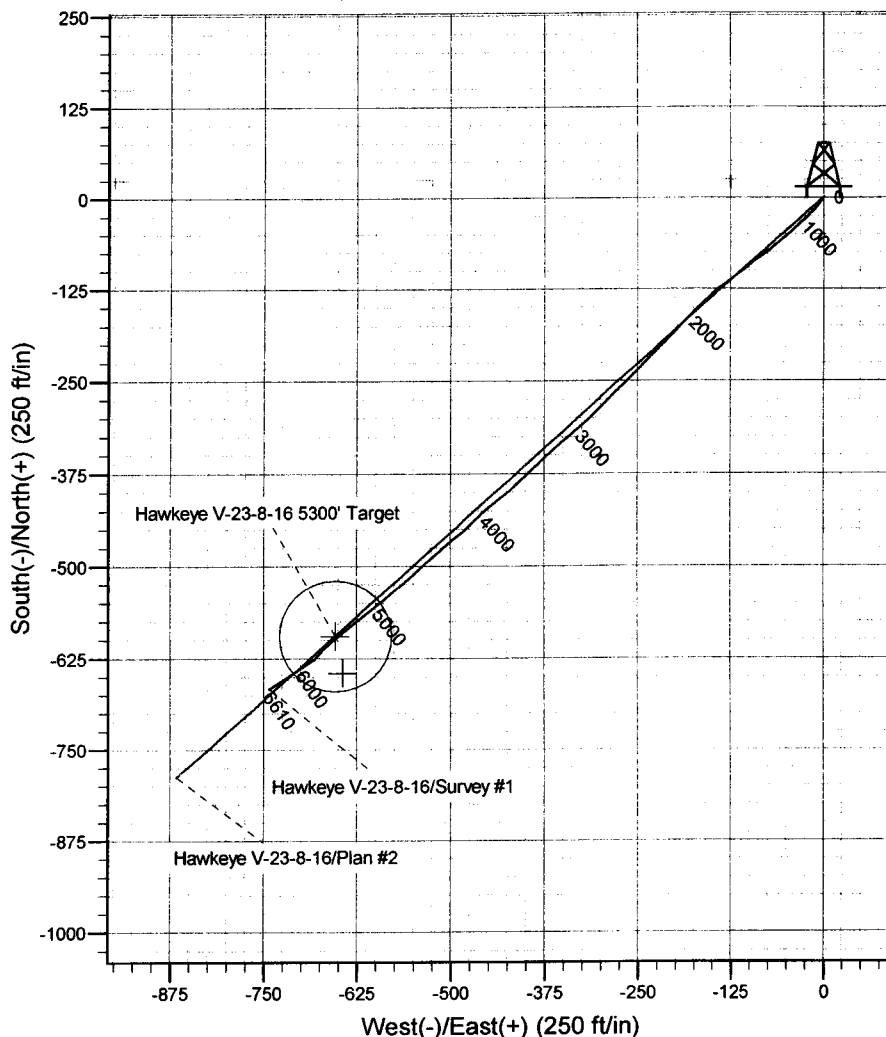
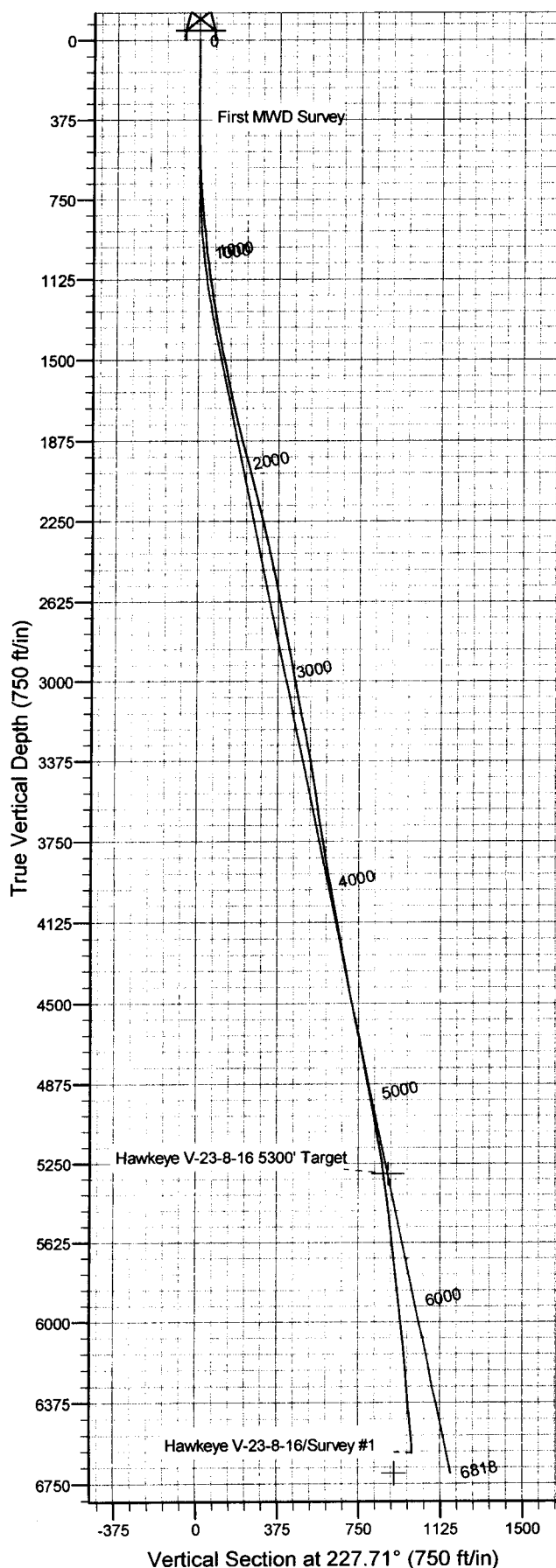




Scientific Drilling  
Rocky Mountain Operations

Project: Duchesne County, UT  
Site: Hawkeye V-23-8-16  
Well: Hawkeye V-23-8-16  
Wellbore: OH  
Design: OH

Newfield Exploration Co.



WELL DETAILS: Hawkeye V-23-8-16

+N/-S	+E/-W	Ground Level:	GL 5470' & RKB 12' @ 5482.00ft (NDSI 2)	
		Northing	Easting	Latitude Longitude
-0.02	0.00	7207563.46	2037733.18	40° 5' 52.540 N 10° 4' 46.680 W

Slot

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Site Hawkeye V-23-8-16, True North  
Vertical (TVD) Reference: GL 5470' & RKB 12' @ 5482.00ft (NDSI 2)  
Section (VS) Reference: Slot - (-0.02N, 0.00E)  
Measured Depth Reference: GL 5470' & RKB 12' @ 5482.00ft (NDSI 2)  
Calculation Method: Minimum Curvature  
Local North: True  
Location: Sec. 23 T8S R16E

PROJECT DETAILS: Duchesne County, UT

Geodetic System: US State Plane 1983  
Datum: North American Datum 1983  
Ellipsoid: GRS 1980  
Zone: Utah Central Zone

Survey: Survey #1 (Hawkeye V-23-8-16/OH)

Created By: Julie Cruse Date: 2007-03-28

# **Newfield Exploration Co.**

Duchesne County, UT

Hawkeye V-23-8-16

Hawkeye V-23-8-16

OH

**Survey: Survey #1**

## **Standard Survey Report**

**28 March, 2007**

# Scientific Drilling

## Survey Report

**Company:** Newfield Exploration Co.  
**Project:** Duchesne County, UT  
**Site:** Hawkeye V-23-8-16  
**Well:** Hawkeye V-23-8-16  
**Wellbore:** OH  
**Design:** OH

**Local Co-ordinate Reference:** Site Hawkeye V-23-8-16  
**TVD Reference:** GL 5470' & RKB 12' @ 5482.00ft (NDSI 2)  
**MD Reference:** GL 5470' & RKB 12' @ 5482.00ft (NDSI 2)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** MultiUserEDM

<b>Project</b>	Duchesne County, UT
<b>Map System:</b>	US State Plane 1983
<b>Geo Datum:</b>	North American Datum 1983
<b>Map Zone:</b>	Utah Central Zone
<b>System Datum:</b>	Mean Sea Level

<b>Site</b>	Hawkeye V-23-8-16, Sec. 23 T8S R16E				
<b>Site Position:</b>		<b>Northing:</b>	7,207,563.48 ft	<b>Latitude:</b>	40° 5' 52.540 N
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,037,733.18 ft	<b>Longitude:</b>	110° 4' 46.680 W
<b>Position Uncertainty:</b>	0.00 ft	<b>Slot Radius:</b>	0.000 in	<b>Grid Convergence:</b>	0.91 °

Well	Hawkeye V-23-8-16, SHL: 645' FSL, 676' FEL					
Well Position	+N/-S	-0.02 ft	Northing:	7,207,563.46 ft	Latitude:	40° 5' 52.540 N
	+E/-W	0.00 ft	Easting:	2,037,733.18 ft	Longitude:	110° 4' 46.680 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	5,470.00 ft

<b>Wellbore</b>	OH				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2005-10	2007-03-16	11.86	65.95	52,737

<b>Design</b>	OH				
<b>Audit Notes:</b>					
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b>	
<b>Vertical Section:</b>	<b>Depth From (TVD)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>	
	0.00	-0.02	0.00	227.71	

<b>Survey Program</b>	<b>Date</b>	2007-03-28			
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
357.00	6,700.00	Survey #1 (OH)	MWD	MWD - Standard	

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Buird Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	-0.02	0.00	0.00	0.00	0.00	0.00
357.00	0.32	30.37	357.00	0.84	0.50	-0.95	0.09	0.09	0.00
<b>First MWD Survey</b>									
388.00	0.26	46.17	388.00	0.97	0.60	-1.10	0.32	-0.19	50.97
418.00	0.27	159.77	418.00	0.95	0.67	-1.15	1.48	0.03	378.67
449.00	0.71	194.40	449.00	0.69	0.65	-0.96	1.65	1.42	111.71
480.00	1.33	206.95	479.99	0.19	0.44	-0.46	2.11	2.00	40.48
510.00	2.16	216.47	509.98	-0.58	-0.06	0.42	2.92	2.77	31.73
540.00	2.38	215.39	539.95	-1.54	-0.75	1.58	0.75	0.73	-3.60
571.00	2.88	212.83	570.92	-2.72	-1.55	2.96	1.66	1.61	-8.26
602.00	2.75	210.26	601.88	-4.02	-2.34	4.43	0.58	-0.42	-8.29
630.00	2.98	212.61	629.85	-5.21	-3.07	5.77	0.92	0.82	8.39
660.00	3.63	213.21	659.80	-6.66	-4.01	7.44	2.17	2.17	2.00

# Scientific Drilling

## Survey Report

**Company:** Newfield Exploration Co.  
**Project:** Duchesne County, UT  
**Site:** Hawkeye V-23-8-16  
**Well:** Hawkeye V-23-8-16  
**Wellbore:** OH  
**Design:** OH

**Local Co-ordinate Reference:**  
**TVD Reference:**  
**MD Reference:**  
**North Reference:**  
**Survey Calculation Method:**  
**Database:**

Site Hawkeye V-23-8-16  
 GL 5470' & RKB 12' @ 5482.00ft (NDSI 2)  
 GL 5470' & RKB 12' @ 5482.00ft (NDSI 2)  
 True  
 Minimum Curvature  
 MultiUserEDM

### Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
691.00	4.20	215.74	690.73	-8.40	-5.22	9.50	1.92	1.84	8.16
721.00	4.36	217.84	720.64	-10.20	-6.56	11.70	0.75	0.53	7.00
752.00	4.56	216.46	751.55	-12.12	-8.01	14.07	0.73	0.65	-4.45
781.00	4.62	219.15	780.46	-13.95	-9.43	16.36	0.77	0.21	9.28
812.00	4.66	219.73	811.35	-15.89	-11.03	18.84	0.20	0.13	1.87
843.00	5.28	221.73	842.24	-17.92	-12.78	21.50	2.08	2.00	6.45
872.00	5.36	226.21	871.11	-19.85	-14.65	24.18	1.46	0.28	15.45
904.00	5.62	226.66	902.97	-21.96	-16.87	27.24	0.82	0.81	1.41
936.00	5.98	225.23	934.80	-24.21	-19.19	30.48	1.21	1.12	-4.47
968.00	6.31	227.08	966.62	-26.58	-21.66	33.90	1.20	1.03	5.78
999.00	6.78	227.36	997.42	-28.98	-24.25	37.43	1.52	1.52	0.90
1,031.00	7.02	228.76	1,029.18	-31.55	-27.11	41.28	0.92	0.75	4.37
1,063.00	7.47	225.37	1,060.93	-34.30	-30.06	45.31	1.94	1.41	-10.59
1,094.00	7.48	224.93	1,091.67	-37.15	-32.92	49.34	0.19	0.03	-1.42
1,126.00	7.78	224.36	1,123.38	-40.17	-35.91	53.58	0.97	0.94	-1.78
1,157.00	8.37	224.75	1,154.07	-43.27	-38.96	57.93	1.91	1.90	1.26
1,188.00	9.00	226.70	1,184.72	-46.54	-42.32	62.61	2.24	2.03	6.29
1,220.00	9.32	227.12	1,216.31	-50.02	-46.04	67.70	1.02	1.00	1.31
1,251.00	9.47	229.11	1,246.89	-53.40	-49.81	72.76	1.15	0.48	6.42
1,282.00	9.48	227.28	1,277.47	-56.80	-53.61	77.86	0.97	0.03	-5.90
1,314.00	9.98	229.57	1,309.01	-60.38	-57.66	83.27	1.98	1.56	7.16
1,344.00	10.60	229.78	1,338.53	-63.85	-61.74	88.63	2.07	2.07	0.70
1,376.00	10.75	230.19	1,369.98	-67.66	-66.28	94.55	0.53	0.47	1.28
1,408.00	10.75	231.98	1,401.41	-71.41	-70.93	100.51	1.04	0.00	5.59
1,439.00	11.07	232.05	1,431.85	-75.02	-75.55	106.36	1.03	1.03	0.23
1,471.00	11.50	232.52	1,463.23	-78.85	-80.50	112.60	1.37	1.34	1.47
1,500.00	11.60	232.68	1,491.65	-82.38	-85.12	118.38	0.36	0.34	0.55
1,532.00	11.76	232.84	1,522.98	-86.30	-90.27	124.84	0.51	0.50	0.50
1,626.00	12.57	232.46	1,614.87	-98.32	-106.02	144.57	0.87	0.86	-0.40
1,719.00	13.00	232.63	1,705.57	-110.83	-122.36	165.08	0.46	0.46	0.18
1,813.00	13.96	229.61	1,796.98	-124.60	-139.40	186.95	1.27	1.02	-3.21
1,907.00	14.36	227.55	1,888.12	-139.81	-156.63	209.94	0.68	0.43	-2.19
1,999.00	14.71	226.01	1,977.18	-155.63	-173.45	233.02	0.57	0.38	-1.67
2,092.00	14.78	221.64	2,067.12	-172.69	-189.83	256.62	1.20	0.08	-4.70
2,185.00	14.44	223.27	2,157.11	-190.00	-205.66	279.98	0.57	-0.37	1.75
2,276.00	13.54	225.23	2,245.41	-205.77	-221.00	301.93	1.12	-0.99	2.15
2,371.00	13.15	223.83	2,337.85	-221.39	-236.38	323.82	0.53	-0.41	-1.47
2,465.00	12.50	223.30	2,429.50	-236.51	-250.76	344.63	0.70	-0.69	-0.56
2,558.00	11.50	224.87	2,520.47	-250.41	-264.21	363.93	1.13	-1.08	1.69
2,651.00	10.98	225.33	2,611.68	-263.20	-277.05	382.04	0.57	-0.56	0.49
2,747.00	10.37	223.71	2,706.02	-275.87	-289.52	399.79	0.71	-0.64	-1.69
2,840.00	10.60	223.93	2,797.47	-288.09	-301.24	416.68	0.25	0.25	0.24
2,933.00	10.32	227.13	2,888.92	-299.91	-313.28	433.54	0.69	-0.30	3.44
3,026.00	9.99	229.16	2,980.47	-310.86	-325.48	449.94	0.52	-0.35	2.18
3,118.00	11.40	230.66	3,070.87	-321.84	-338.55	466.99	1.56	1.53	1.63
3,210.00	10.80	228.36	3,161.15	-333.33	-352.03	484.69	0.81	-0.65	-2.50
3,305.00	11.68	226.79	3,254.32	-345.83	-365.69	503.21	0.98	0.93	-1.65
3,400.00	9.88	226.65	3,347.64	-358.01	-378.62	520.97	1.89	-1.89	-0.15
3,495.00	8.57	225.34	3,441.41	-368.58	-389.59	536.20	1.40	-1.38	-1.38
3,588.00	8.84	225.54	3,533.34	-378.45	-399.62	550.26	0.29	0.29	0.22
3,682.00	9.06	228.73	3,626.20	-388.40	-410.33	564.88	0.58	0.23	3.39
3,776.00	8.68	226.51	3,719.07	-398.16	-421.04	579.37	0.54	-0.40	-2.36
3,869.00	9.38	232.19	3,810.92	-407.63	-432.12	593.94	1.22	0.75	6.11
3,963.00	9.69	231.80	3,903.62	-417.22	-444.39	609.47	0.34	0.33	-0.41

# Scientific Drilling

## Survey Report

**Company:** Newfield Exploration Co.  
**Project:** Duchesne County, UT  
**Site:** Hawkeye V-23-8-16  
**Well:** Hawkeye V-23-8-16  
**Wellbore:** OH  
**Design:** OH

**Local Co-ordinate Reference:**  
**TVD Reference:**  
**MD Reference:**  
**North Reference:**  
**Survey Calculation Method:**  
**Database:**

Site Hawkeye V-23-8-16  
 GL 5470' & RKB 12' @ 5482.00ft (NDSI 2)  
 GL 5470' & RKB 12' @ 5482.00ft (NDSI 2)  
 True  
 Minimum Curvature  
 MultiUserEDM

### Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,056.00	10.80	227.03	3,995.14	-428.00	-456.92	625.99	1.50	1.19	-5.13
4,151.00	10.26	222.82	4,088.54	-440.28	-469.18	643.32	0.99	-0.57	-4.43
4,246.00	10.93	230.10	4,181.93	-452.26	-481.84	660.75	1.57	0.71	7.66
4,340.00	10.48	230.80	4,274.29	-463.38	-495.30	678.19	0.50	-0.48	0.74
4,438.00	9.77	229.44	4,370.76	-474.42	-508.53	695.40	0.76	-0.72	-1.39
4,532.00	10.48	226.82	4,463.30	-485.45	-520.82	711.92	0.90	0.76	-2.79
4,626.00	11.51	226.31	4,555.57	-497.78	-533.84	729.84	1.10	1.10	-0.54
4,719.00	11.08	227.91	4,646.77	-510.18	-547.18	748.06	0.57	-0.46	1.72
4,813.00	11.07	228.98	4,739.02	-522.16	-560.69	766.11	0.22	-0.01	1.14
4,907.00	10.34	228.99	4,831.38	-533.62	-573.86	783.57	0.78	-0.78	0.01
5,002.00	10.74	228.64	4,924.78	-545.06	-586.94	800.94	0.43	0.42	-0.37
5,097.00	10.39	231.56	5,018.17	-556.24	-600.29	818.34	0.67	-0.37	3.07
5,190.00	9.89	233.07	5,109.72	-566.25	-613.25	834.66	0.61	-0.54	1.62
5,284.00	9.19	230.72	5,202.42	-575.85	-625.51	850.19	0.85	-0.74	-2.50
5,379.00	8.11	230.94	5,296.34	-584.88	-636.59	864.46	1.14	-1.14	0.23
5,387.06	11.59	227.71	5,300.00	-595.00	-654.00	884.15	43.66	43.14	-40.14
<b>Hawkeye V-23-8-16 5300' Target</b>									
5,472.00	7.54	230.79	5,388.47	-592.87	-646.41	877.10	4.80	-4.76	3.63
5,563.00	6.83	229.18	5,478.75	-600.18	-655.13	888.47	0.81	-0.78	-1.77
5,657.00	6.44	228.13	5,572.12	-607.35	-663.28	899.33	0.43	-0.41	-1.12
5,751.00	5.76	220.35	5,665.59	-614.47	-670.26	909.28	1.14	-0.72	-8.28
5,844.00	6.60	224.73	5,758.05	-621.82	-677.05	919.25	1.04	0.90	4.71
5,936.00	6.56	234.62	5,849.45	-628.62	-685.05	929.74	1.23	-0.04	10.75
6,029.00	5.81	234.58	5,941.91	-634.42	-693.22	939.69	0.81	-0.81	-0.04
6,121.00	5.52	235.97	6,033.46	-639.60	-700.68	948.69	0.35	-0.32	1.51
6,215.00	5.38	239.82	6,127.03	-644.34	-708.24	957.48	0.42	-0.15	4.10
6,308.00	4.96	233.44	6,219.66	-648.93	-715.24	965.74	0.76	-0.45	-6.86
6,402.00	4.61	235.67	6,313.33	-653.48	-721.62	973.52	0.42	-0.37	2.37
6,495.00	4.77	236.23	6,406.02	-657.74	-727.92	981.05	0.18	0.17	0.60
6,588.00	4.67	239.10	6,498.70	-661.83	-734.38	988.58	0.28	-0.11	3.09
6,649.00	4.72	235.65	6,559.50	-664.52	-738.59	993.50	0.47	0.08	-5.66
6,700.00	4.72	235.65	6,610.32	-666.89	-742.05	997.66	0.00	0.00	0.00
<b>Projection to TD</b>									

# Scientific Drilling

## Survey Report

**Company:** Newfield Exploration Co.  
**Project:** Duchesne County, UT  
**Site:** Hawkeye V-23-8-16  
**Well:** Hawkeye V-23-8-16  
**Wellbore:** OH  
**Design:** OH

**Local Co-ordinate Reference:** Site Hawkeye V-23-8-16  
**TVD Reference:** GL 5470' & RKB 12' @ 5482.00ft (NDSI 2)  
**MD Reference:** GL 5470' & RKB 12' @ 5482.00ft (NDSI 2)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** MultiUserEDM

### Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
Old BHL Hawkeye V-23-	0.00	0.00	6,702.00	-645.00	-644.00	7,206,908.33	2,037,099.50	40° 5' 46.165 N	110° 4' 54.968 W
- survey misses by 136.01ft at 6700.00ft MD (6610.32 TVD, -666.89 N, -742.05 E)									
- Point									
Hawkeye V-23-8-16 530	0.00	0.00	5,300.00	-595.00	-654.00	7,206,958.17	2,037,088.71	40° 5' 46.659 N	110° 4' 55.096 W
- survey hits target									
- Circle (radius 75.00)									

### Survey Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
357.00	357.00	0.84	0.50	First MWD Survey
6,700.00	6,610.32	-666.89	-742.05	Projection to TD

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_